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May 6, 2014

VIA FEDEX

Sharon Kivowitz
Office of Regional Counsel
U.S. Environmental Protection Agency, Region 2
290 Broadway, 17th Floor
New York, NY 10007
kivowitz.sharon@epa.gov

Re: 67 Sylvester Street Holdings LLC's Supplemental Response to EPA's Notice of Potential Liability and Request for Information for the New Cassel/Hicksville Ground Water Contamination Superfund Site

Dear Ms. Kivowitz:

In 67 Sylvester Street Holdings LLC's April 17, 2014 response to EPA's request for information under CERCLA § 104(e), we indicated that we had requested, under New York's Freedom of Information Law, records from the New York State Department of Conservation ("DEC") related to response activities for the Former LAKA Industries site at 62 Kinkel Street, Westbury, New York. On April 22, DEC fulfilled our request.

We therefore enclose the documents that DEC furnished as the following supplemental exhibits to 67 Sylvester Street Holdings LLC's CERCLA 104(e) response:

Exhibit M	Focused Remedial Investigation Report for the Former LAKA Industries Site, Volume I (Nov. 1998)
Exhibit N	Focused Remedial Investigation Report for the Former LAKA Industries Site, Volume II (Nov. 1998)
Exhibit O	Focused Remedial Investigation Report for the Former LAKA Industries Site, Volume III (Nov. 1998)
Exhibit P	Focused Remedial Investigation Report for the Former LAKA Industries Site, Volume IV (Nov. 1998)
Exhibit Q	Draft Final Vapor Intrusion Investigation Report, New Cassel Industrial Area Site # 130043 (May 2011)

Respectfully submitted,

Scott Furman

Enclosures (CD-ROM)

cc: Jennifer LaPoma
Remedial Project Manager
Emergency and Remedial Response Division
U.S. Environmental Protection Agency, Region 2
290 Broadway, 17th Floor
New York, NY 10007-1866
lapoma.jennifer@epa.gov

Tommaso Marasco 67 Sylvester Street Holdings LLC 67 Sylvester Street Westbury, New York 11590

Exhibit M

NEW YORK STATE SUPERFUND CONTRACT FOCUSED REMEDIAL INVESTIGATION REPORT Volume I Report • Appendices A-B

Former LAKA Industries Site Site No. 1-30-043K

Work Assignment No. D002676-27.1

DATE: November 1998



Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233 John Cahill, Commissioner

> Division of Environmental Remediation Michael J. O'Toole, Jr., *Director*

By: Lawler, Matusky & Skelly Engineers LLP

ENGINEERING AND OPERATIONS SERVICES NEW YORK STATE SUPERFUND STANDBY CONTRACT

FORMER LAKA INDUSTRIES SITE TOWN OF NORTH HEMPSTEAD, NASSAU COUNTY Site I.D. No. 1-30-043K

Work Assignment No. D002676-27.1

FOCUSED REMEDIAL INVESTIGATION REPORT

Prepared for:

NOV 3 0 1998 New York State Department of Environmental Conservation **Division of Environmental Remediation**

November 1998

LAWLER, MATUSKY & SKELLY ENGINEERS LLP **Environmental Science & Engineering Consultants** One Blue Hill Plaza Pearl River, New York 10965 ENGINEERING AND OPERATIONS SERVICES NEW YORK STATE SUPERFUND STANDBY CONTRACT

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CHAPTER 1

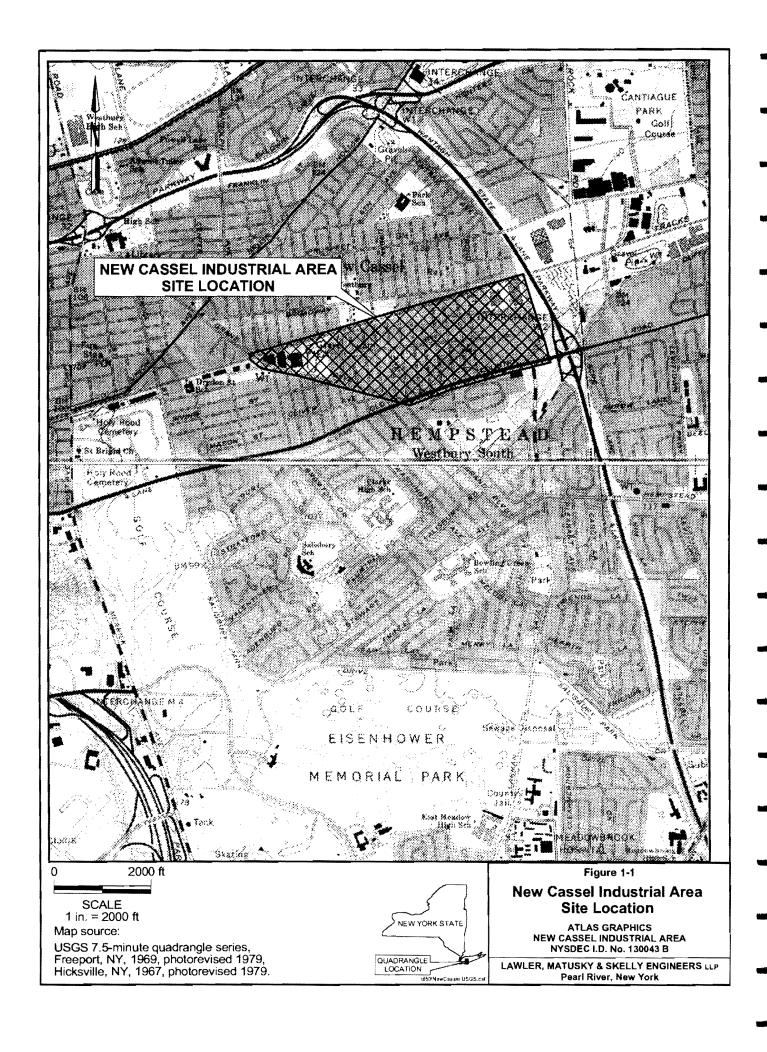
EXECUTIVE SUMMARY

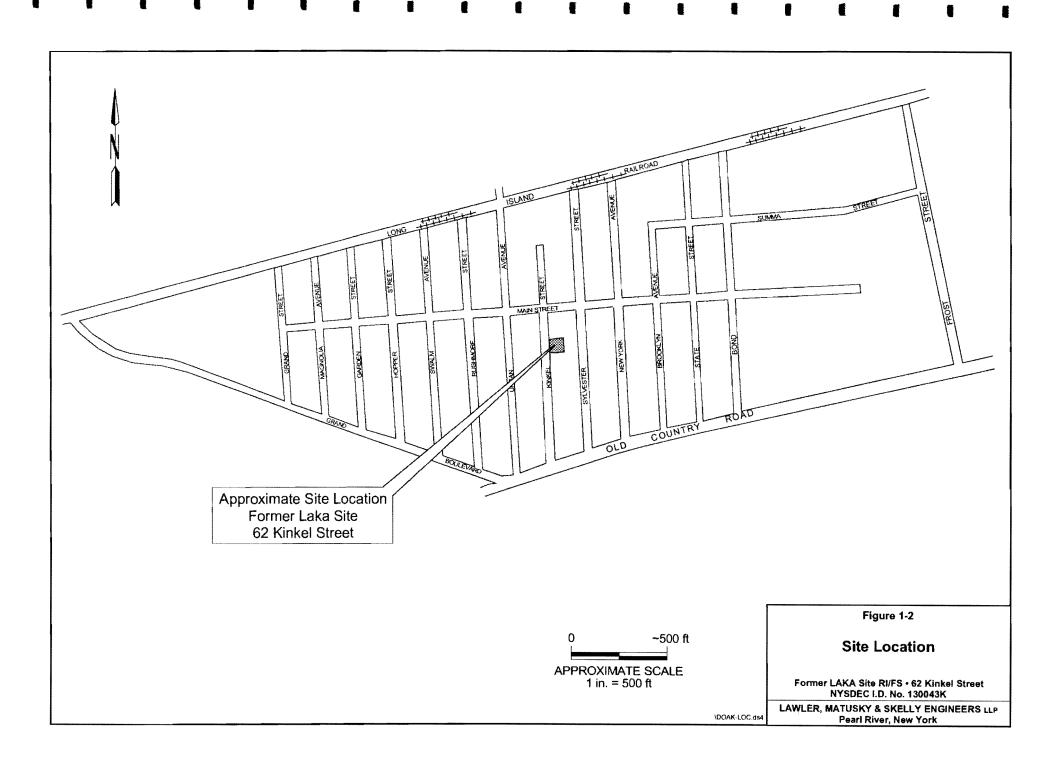
The former LAKA site (No. 1-30-043K on the registry) is located at 62 Kinkel Street in the New Cassel Industrial Area (NCIA) (Figure 1-1), Town of North Hempstead, Nassau County, New York (Figure 1-2). The site is comprised of approximately three quarters of an acre of land that is occupied by a pharmaceutical manufacturing company, Doak Pharmacal (Doak). The Doak building occupies the former LAKA site and extends beyond the property line to the Sylvester Street side of the block to the east (Figure 1-3). The site is entirely paved or covered with the footprint of the building with the exception of two small landscaped areas in front of the building (west side).

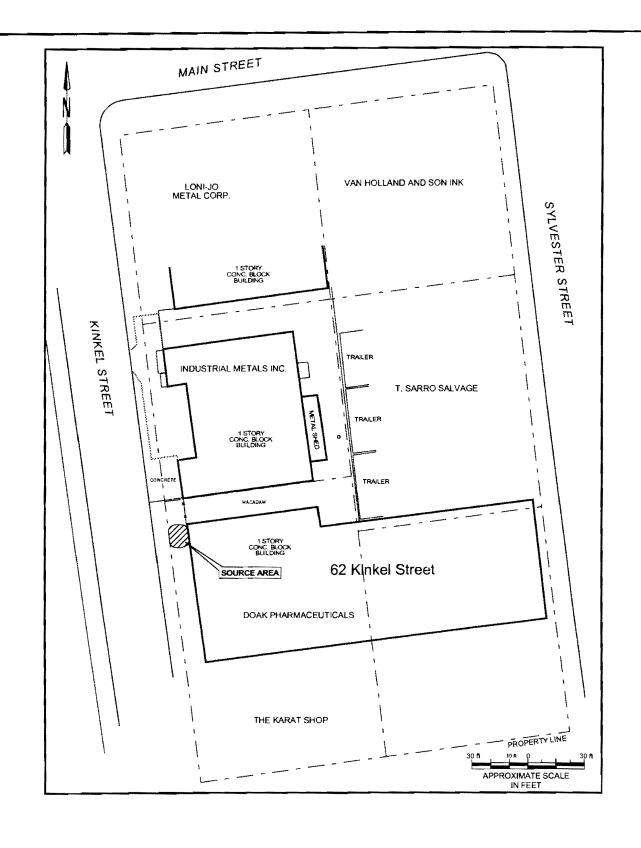
In 1986, extensive chlorinated solvent contamination (10-9,800 μ g/l) was discovered in the Upper Glacial Aquifer (UGA) and Magothy Aquifer, which underlie the NCIA and former LAKA site. During a NYSDEC PSA at the NCIA an abandoned leach pool was discovered off the northwest corner of the existing Doak building. Two samples collected from this area were heavily contaminated with chlorinated solvents. This site was included on the Registry of Inactive Hazardous Waste Disposal Site as a Class 2 site based on this on-site source and an apparent impact to the groundwater below the site.

From 1971 to 1978, the LAKA Tool and Stamping Co., Inc. occupied the site, performing precision metal stamping operations as a defense contractor. Operations primarily consisted of tool and die manufacturing. A Nassau County industrial chemical waste survey revealed 55 gallons of trichloroethylene (TCE) was used at the site each year, in conjunction with a vapor degreaser. Sludge from the vapor degreaser was reportedly placed in containers, however, its final disposal method is unknown. Additionally, 15 to 20 gallons of cutting oil was used annually during production. The site history for the former LAKA site indicates that the main contaminants of concern are VOC's and SVOC's. The VOC's are primarily halogenated volatile organic compounds used in degreasing while the SVOC's were used as lubricants or cutting oils.

NYSDEC assigned Lawler, Matusky & Skelly Engineers LLP (LMS) the task of conducting a Focused Remedial Investigation (FRI) to define the nature and extent of the on-site contamination. A work plan outlining the specific FRI tasks was approved by the NYSDEC and a notice to proceed was issued on 18 November 1997. This report presents the results from the FRI at the former LAKA site between January 1998 and September 1998.







	LAWIEr, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965	Site Plan	Figure 1-3
-	ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	Former LAKA Site RI/FS, 62 Kinkel Street NYSDEC I.D. No.: 13004	3K doaksit2.dsf

Topography at the former LAKA site is essentially level with an elevation of approximately 120-ft above mean sea level. There are no significant sources of surface water directly surrounding or in the immediate vicinity of the former LAKA site. Land use in the area is primarily industrial, commercial, and residential. Commercial property dominates along Old Country Road while land use north and south of the industrial area consists primarily of residential property. Based on an ecological communities classification system outlined by the New York State Department of Environmental Conservation the New Cassel Industrial Area is entirely comprised of a terrestrial cultural community. The climate of Long Island is moderated by its proximity to the ocean with an average annual temperature of 52.7° F and annual precipitation averaging about 44 inches per year (USGS, 1963).

Long Island regional hydrogeology consists of a significant thickness of unconsolidated sediments (Cretaceous and Pleistocene age) overlying Precambrian and Paleozoic basement bedrock. The bedrock surface is found at an average depth of approximately 1000-ft below sea level (USGS, 1989). Of primary concern for this investigation are the upper Pleistocene deposits and the underlying Magothy Formation. The upper Pleistocene deposits of poorly sorted sands and gravel that make up the upper glacial aquifer (UGA) are found from the surface to a depth of approximately 70-ft below the surface. The Magothy Formation consists of interbedded lenses and layers of fine to medium sand, clayey sand and solid clay with a basal, water-bearing, gravel zone. The Magothy is the major aquifer for public supply to nearly all of Long Island. The depth of the upper surface of the Magothy is found at about 70-ft below the surface. The UGA and Magothy are in direct hydraulic connection in the study area. Depth to water is about 50 to 55 ft below the ground surface in the study area and groundwater flows to the southwest. Hydraulic conductivity values for the UGA in the study area range from 58 to 391 ft/day. Hydraulic conductivity values based on slug tests conducted in deeper wells (Magothy Formation) were generally lower, ranging from 4 to 103 ft/day.

The field investigation activities for the FRI included two phases of soil probes. During the first phase 26 probe locations were sampled. Four additional probes were completed during the second phase of sampling. A total of 69 soil samples were obtained from the probes and submitted for TCL VOC's; in addition 21 of the soil samples were also submitted for TAL metals. The probe unit was also used to collect sediment samples from a drainage structure located at 54 Kinkel Street.

Analytical results from the FRI soil probes completed at the site indicate that acetone, xylene, trichloroethylene (TCE), and 2-butanone are present at levels exceeding the NYSDEC recommended soil cleanup objectives included in the November 1992 Technical and Administrative Guidance Memorandum (TAGM). Several metals were also found at levels exceeding the recommended cleanup objectives but it is believed the levels found are typical background levels

for this industrialized area. Based on the observations during the PSA and the FRI soil probes, it appears the former leachpool which was located off the northwest corner of the building was removed or cleaned when the existing building was connected to the county sewer system. The sampling results support this assumption in that only limited hot spots of contamination were found in the former pool location. The other soil probes which were installed across the site did not indicate that additional source areas are located in the areas that were sampled.

The existing drainage structure located in the parking lot at 54 Kinkel Street contains levels of VOC's and SVOC's which exceed the recommended cleanup objective for these compounds. The drainage structure also contains levels of metals including chromium and cadmium above the recommended cleanup objectives. It is not known if the presence of these contaminants are related to activities associated with the former LAKA operation. Based on the location of this drainage structure any runoff from the former LAKA site along the southern side of the building would be directed to the structure.

Probe groundwater samples collected in September 1998 from below the former leachpool revealed the presence of several compounds exceeding NYSDEC Class GA Standards. These samples were collected from three depth intervals: 62-63 feet, 72-73 feet, and 92-93 feet below ground surface. In the shallow interval, the concentration of tetrachloroethylene (PCE) (2 mg/l) was found to exceed NYSDEC Class GA groundwater standards. At the intermediate depth interval concentrations of 1,1-dichloroethylene (1,1-DCE), 1,1,1-trichloroethane (TCA), TCE, and PCE exceed NYSDEC Class GA groundwater standards. Concentrations of acetone, 1,1-dichloroethane (1,1-DCA), 1,2-DCE (total), 1,1,1-TCA, TCE, benzene, and PCE exceed standards in the deepest sampled interval.

A total of 7 monitoring wells (3 shallow wells and 4 deep wells) were installed during the FRI. Each of these wells and 6 existing wells were sampled and analyzed for TCL VOCs. The groundwater analytical results for the 13 monitoring wells showed concentrations of VOCs in excess of the Class GA groundwater standards in all wells sampled. Each well had various halogenated volatile organic compounds including 1,1,1-TCA, TCE, PCE, and the breakdown products of each compound. In the shallow wells total VOCs ranged from 14 µg/l to 26 µg/l in the two upgradient wells (MW-201 and FLMW-204A) to 215 µg/l in one of the downgradient wells (FLMW-206A). In the deep wells total VOCs ranged from 80 µg/l in the upgradient well to 340 µg/l in one of the downgradient wells (FLMW-205B). Based on the results of the groundwater sampling and analysis past activities at the former LAKA site have contributed to the known groundwater contamination in this area of the NCIA. The contamination has affected both the UGA and the upper zones of the Magothy Aquifer. The analytical results from the upgradient wells indicate that additional upgradient groundwater contamination has migrated onto the former LAKA site. The exact vertical and horizontal limits of the plume could not be determined due to the

presence of upgradient groundwater contamination.

Most of the property is paved and used for industrial purposes, hence exposure pathways to the contamination are limited. Currently, there are no on-site pathways of exposure to the groundwater since no private or municipal water supply wells exist on-site and the groundwater is not used in any other capacity. Off-site pathways within the NCIA are also not believed to exist based on the focused RI and previous investigations. The potential for downgradient exposure pathways through the groundwater are being addressed by other NYSDEC investigations due to the presence of multiple sources of contamination within the NCIA.

Remedial action objectives are developed for a site to determine the levels to which contaminant concentrations must be reduced to protect human health and environment. The remedial action levels for this site are based on established NYSDEC recommended soil cleanup objectives and NYSDEC Class GA groundwater standards for each of the contaminants of concern. Based on the limited amount of soils found in excess of the cleanup objectives approximately 22 cubic yards of contaminated soils are found near the former leachpool area. In addition to these soils another 4 cubic yards of contaminated sediments are found in the drainage structure located at 54 Kinkel Street.

CHAPTER 2

INTRODUCTION AND BACKGROUND

2.1 SITE LOCATION AND DESCRIPTION

The former LAKA site (No. 1-30-043K on the registry) is located at 62 Kinkel Street in the NCIA, Town of North Hempstead, Nassau County, New York (Figure 1-1). The site is comprised of approximately three quarters of an acre of land that is bounded by Kinkel Street to the west, Industrial Metals, Inc. to the north and The Karat Shop to the south (Figure 1-2). Doak Pharmacal (Doak) currently operates on the property formerly occupied by LAKA. The Doak building occupies the former LAKA site and extends beyond the property line to the Sylvester Street side of the block to the east (Figure 2-1). The site is entirely paved or covered with the footprint of the building with the exception of two small landscaped areas in front of the building (west side). During Preliminary Site Assessment (PSA) facility inspections, no floor drains were noted within the building however the building has been modified significantly for its current use. Currently the building uses the municipal water supply and the public sewer system. It is not known when the transition was made from using leachpools to the public sewer although it is believed this took place sometime in the early 1980's.

2.2 SITE BACKGROUND

The former LAKA site is located in the NCIA, which contains numerous Registry sites as a result of past disposal practices. In 1986, extensive chlorinated solvent contamination ($10-9,800~\mu g/l$) was discovered in the UGA and Magothy Aquifers, which underlie the site. Lawler, Matusky & Skelly Engineers LLP (LMS) conducted a PSA throughout the NCIA, during this Γ SA an abandoned leachpool was discovered off the northwest corner of the existing Doak building. Samples collected from this area were heavily contaminated with chlorinated solvents. This site was included on the Registry of Inactive Hazardous Waste Disposal Sites as a Class 2 site based on this on-site source and an apparent impact to the groundwater below the site.

From 1971 to 1978, the LAKA Tool and Stamping Co., Inc. occupied the site, performing precision metal stamping operations as a defense contractor. Operations primarily consisted of tool and die manufacturing. A Nassau County industrial chemical waste survey revealed 55 gallons of TCE were used at the site each year, in conjunction with a vapor degreaser. Sludge from the vapor degreaser was reportedly placed in containers, however, its final disposal method is unknown. Additionally, 15 to 20 gallons of cutting oil was used annually during production. Nassau County Department of Health (NCDOH) records indicate that wastes were evaporated, and there is no

documentation confirming discharge to a cesspool.

2.3 REPORT ORGANIZATION

The former LAKA Industries FRI is composed of Chapters 1 through 6. An executive summary of the FRI objectives, site history, and FRI findings are presented in Chapter 1. Chapter 2 outlines background information regarding the location, description and history of the former LAKA site. Procedures for field investigations can be found in Chapter 3, including details on soil probing and monitoring well installation, development, sampling and testing. Descriptions of the site geology, hydrogeology, climate and land use as well as other physical characteristics of the site can be found in Chapter 4. Chapter 5 presents the nature and extent of contamination from the findings of previous investigations and from this FRI. A summary of the FRI findings, interpretation of the data and objectives for remedial action are found in Chapter 6.

Data and field logs are arranged in appendices at the end of the report. Appendix A consists of sampling logs from soil and groundwater probing at the site. Appendix B contains monitoring well boring and installation logs. Appendix C contains logs from the development of the monitoring wells on and surrounding the site. Results from performing in-situ hydraulic tests using the new and existing wells are compiled in Appendix D. Appendix E consists of groundwater sampling logs recorded during the sampling of both the new and existing monitoring wells. Data validation and usability reports are contained in Appendix F. Analytical data summary sheets from monitoring well groundwater samples are found in Appendix G. Appendix H contains the analytical data summary sheets from the probe samples collected at the site.

CHAPTER 3

FIELD INVESTIGATION PROCEDURES

3.1 INTRODUCTION

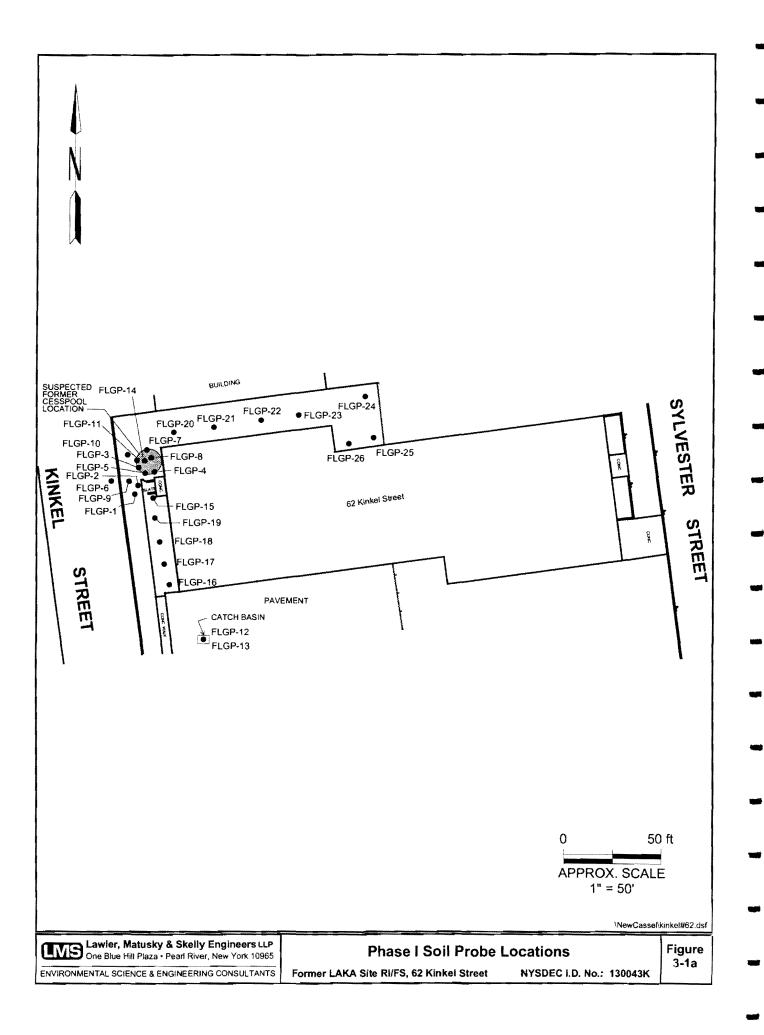
Field investigations at the former LAKA site were conducted to further delineate the extent of source area contamination and to provide improved monitoring of groundwater quality at the site. Lateral and vertical delineation of subsurface soil contamination was determined through laboratory analysis of probe samples and on-site monitoring of split spoon samples collected during the installation of monitoring wells. Pairs of new monitoring wells consisting of a shallow and a deep well were installed upgradient and downgradient of the site and sampled to determine the extent and magnitude of groundwater contamination resulting from past practices at the site.

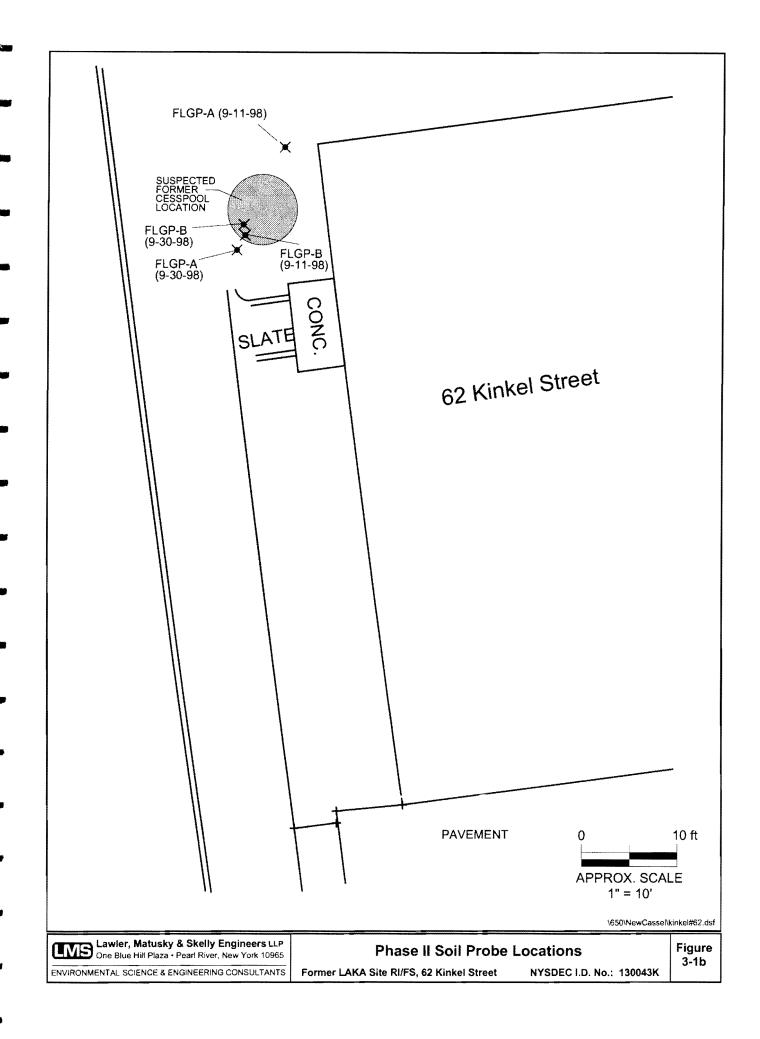
3.2 PROBE SAMPLING

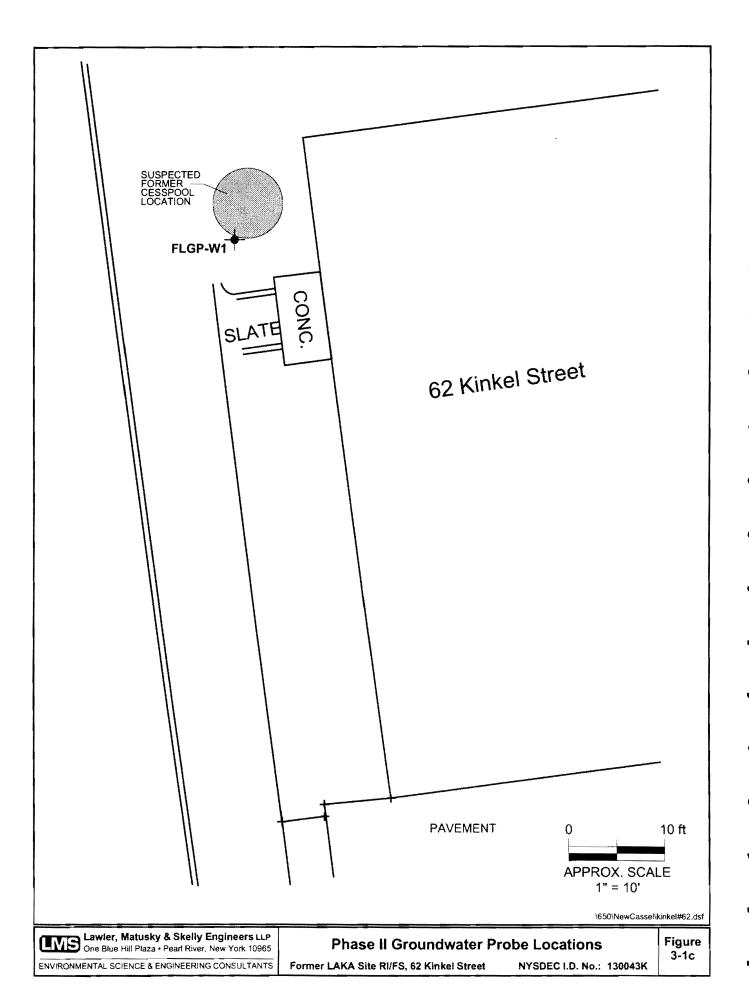
3.2.1 Phase I Soil Probes

A total of 24 probe borings, advanced by a truck mounted probe unit, were completed along the north and west sides of the Doak building (Figure 3-1a). The probe unit was operated by Vironex of New Jersey. Continuous probing to 24 ft bgs was performed at 17 points between the west face of the building and Kinkel Street. This was done to assess the extent of contamination surrounding the known source area at the northwest corner of the Doak building and to search for sources along the edge of the building south of the known source. Advancement of five of these probes continued to greater depths in an attempt to sample groundwater near the top of the water table. However, due to shallow refusals groundwater probe samples were not collected during the first phase of the probing. In the alley north of the building 7 borings were advanced to 24 ft bgs to address the possibility of additional source areas. Two additional borings were done by hand through a drainage grate in the parking lot of 54 Kinkel Street (south of the Doak building) to collect sludge samples.

Samples were collected in 4 ft runs using a 1.5-in. inside diameter (I.D.) macro core sampler. Generally this sampler is only useful to depths of approximately 16 feet due to the likelihood of hole collapse. During the course of this investigation however, the macro core sampler was often used to depths of 24 ft bgs without significant problems. At depths greater than 24 ft bgs or if hole collapse did become a problem, the large bore sampler was utilized. This sampler is smaller in diameter (1.0 in. I.D.) and collects material in 2 ft runs. Soil recovery was accomplished in the same manner for both samplers. Dedicated acetate liners were placed inside the steel sampler







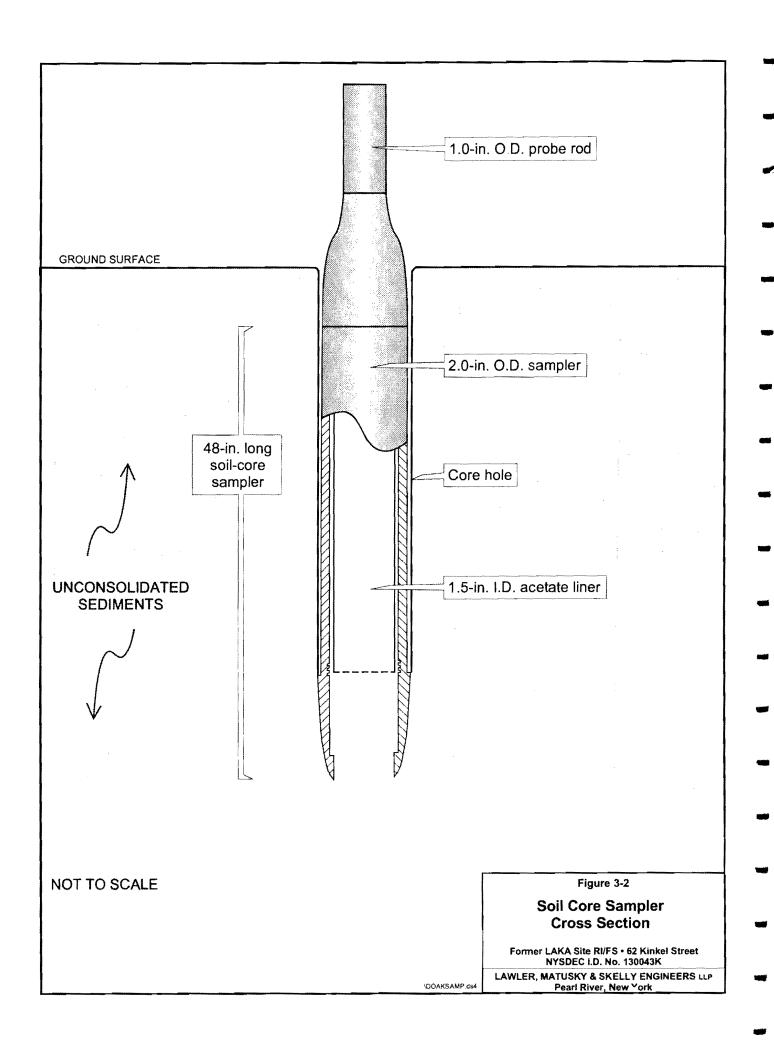
before the sampler was advanced to the desired depth using the hydraulic driven probe system (Figure 3-2). Upon removal from the sampler, soil contained within the liner was scanned with a flame ionization detector (FID) or photo ionization detector (PID) for the presence of volatile organic compounds (VOCs). Based on the results of this on-site scanning, portions of the recovered soil were transferred to laboratory-cleaned glass jars for VOC analysis. Typically, portions of the recovered material showing the highest response above background levels when scanned with the PID or FID would be submitted for VOC analysis. In borings where no significant VOC levels were detected by the PID or FID samples were collected from near the surface (0 to 4 ft bgs), near the bottom of the boring (20 to 24 ft bgs) and, in some cases, mid-boring (12 ft bgs). Samples were also collected for TAL metals and CN analysis. These samples were collected as composite samples from a portion of the core of soil recovered in the acetate liners. Therefore, the TAL metals and CN samples were not necessarily correlated to high VOC content as detected by the PID or FID. All soil samples submitted for analysis to Accredited Labs were labeled with sample location, interval, date, time, sampler and required analysis. The samples were then logged on a chain of custody record, securely packaged in ice and shipped overnight via Federal Express to Accredited Laboratories for analysis.

3.2.2 Phase II Soil and Groundwater Probes

In September 1998 four additional soil probes from the source area and a probe to collect groundwater from below the source area were completed. Figure 3-1b is a plan view of source area at 62 Kinkel Street and the location of the additional soil probes. Figure 3-1c shows the location of the groundwater probe point.

The additional soil probes were completed following procedures used for previous soil probes at the site using an AMS truck mounted probe owned by LMS. Since the purpose of the additional soil probes was to characterize the level of contamination in a sludge layer at approximately 16 feet below the surface, three of the probes were advanced to 24 feet bgs and the fourth probe was completed to 28 feet bgs. A total of only two samples were submitted for analysis from the material recovered from these four probes. The samples that were submitted were from material exhibiting the highest PID readings. Each sample was collected in a laboratory-cleaned glass container and submitted for VOC analysis. Sample logging, packaging, and shipment followed the procedure outlined above in the description for the Phase I soil probes.

One soil sample was collected and shipped to the analytical laboratory on 11 September 1998. Since it was anticipated that further sampling would take place, no MS/MSD samples were submitted with this sample.



Due to delivery/receiving problems at the analytical laboratory sampling was repeated on 30 September 1998 at a different soil probe located several inches from the original. Containers with soil samples from this probe were submitted for VOC and MS/MSD analysis in accordance with the procedures detailed above.

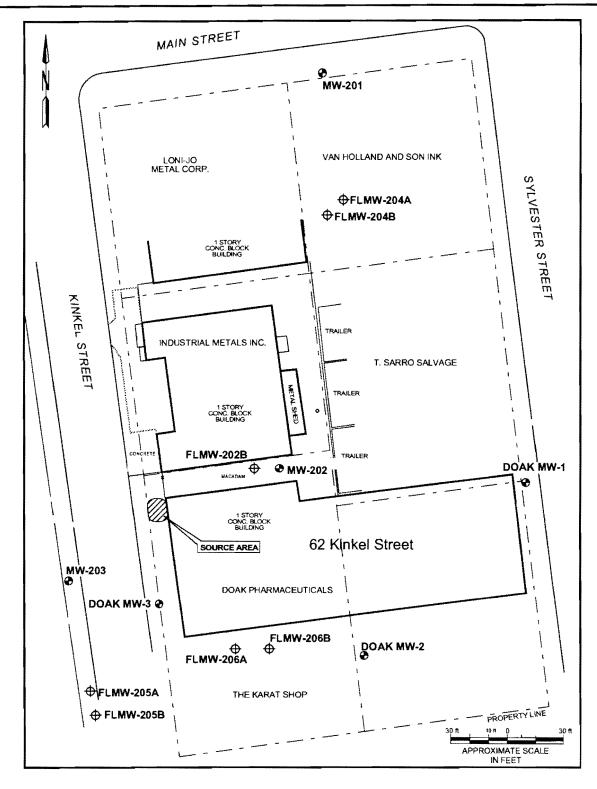
In addition to the soil probes, the AMS probe was used to advance probe rods fitted with a disposable tip and sediment screen for groundwater sampling at discrete intervals. In this method the probe rods are driven approximately two feet below the depth of the deepest desired sampling interval. The rods are then pulled up to the sampling interval, with friction pulling off the disposable tip. This then leaves the bottom rod open and allows groundwater to enter the rod. At the very end of the bottom rod is a fine screen designed to allow the entrance of water but not sediment in to the rod. If water is detected in the rods, the volume of the water column is calculated and three volumes are purged from the rods before sampling. Dedicated tubing is used for hand purging and sampling at each interval. After the sample is collected the rods are pulled up to the next deepest sampling interval and the purging and sampling process is repeated.

3.3 MONITORING WELL INSTALLATION

3.3.1 General Monitoring Well Details

Seven new monitoring wells were installed surrounding the former LAKA site from 14 to 29 January 1998. Three wells were placed upgradient and four downgradient of the known source area at the former LAKA site (Figure 3-3). Pairs of shallow and deep wells were drilled in close proximity in order to provide data on groundwater quality at different levels within the aquifer(s). The shallow wells were set in the UGA at depths of approximately 60 ft bgs while the deep wells were screened in the upper portion of the Magothy Aquifer at about 110 ft bgs. The deep wells were originally to have been set at the bottom of the UGA, however, based on our interpretation of the split spoon samples it appears that the UGA-Magothy interface is found significantly shallower than anticipated. Figures 3-4a and b show geologic cross-sections A-A' and B-B' which run approximately north-south and east-west through the site, respectively. Although there was a noticeable change in the transition from the UGA to the Magothy, no significant confining layer was encountered that would preclude downward migration of contaminants. Based on this information, it was decided that the deep wells would be set at 110 ft bgs in order to provide some indication of the water quality in the upper Magothy Aquifer.

All of the newly installed wells were drilled using a 4.25-in. I.D. hollow stem auger, as shown in Figure 3-5, and constructed from ten foot sections of threaded, flush-joint 2-in. Schedule 40 PVC (Figure 3-6). Each of the new wells was fitted with 10 feet of 10-slot sized PVC screen. The sand



Legend

Existing monitoring well

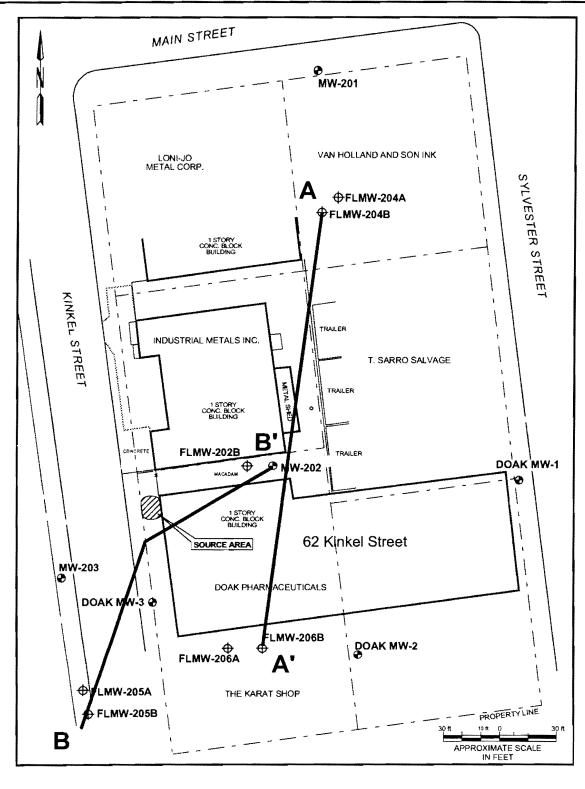
A = Shallow well

New monitoring well

B = Deep well

LMS	Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965
ENVIRONM	ENTAL SCIENCE & ENGINEERING CONSULTANTS

Figure



Legend

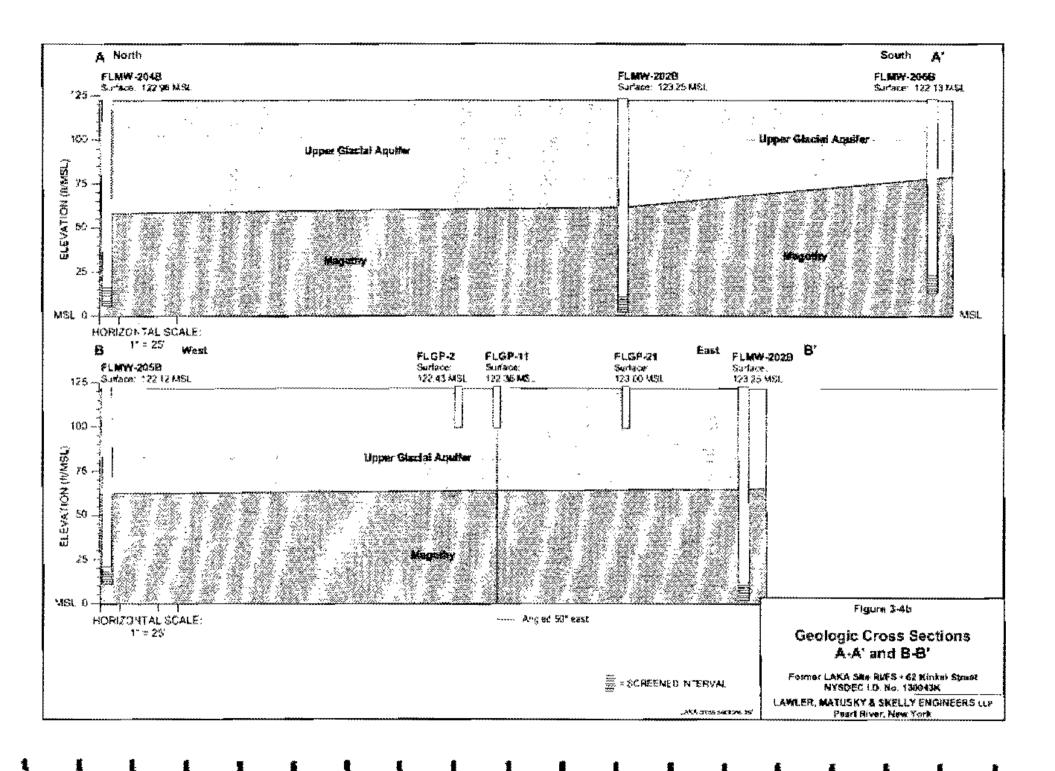
Existing monitoring well

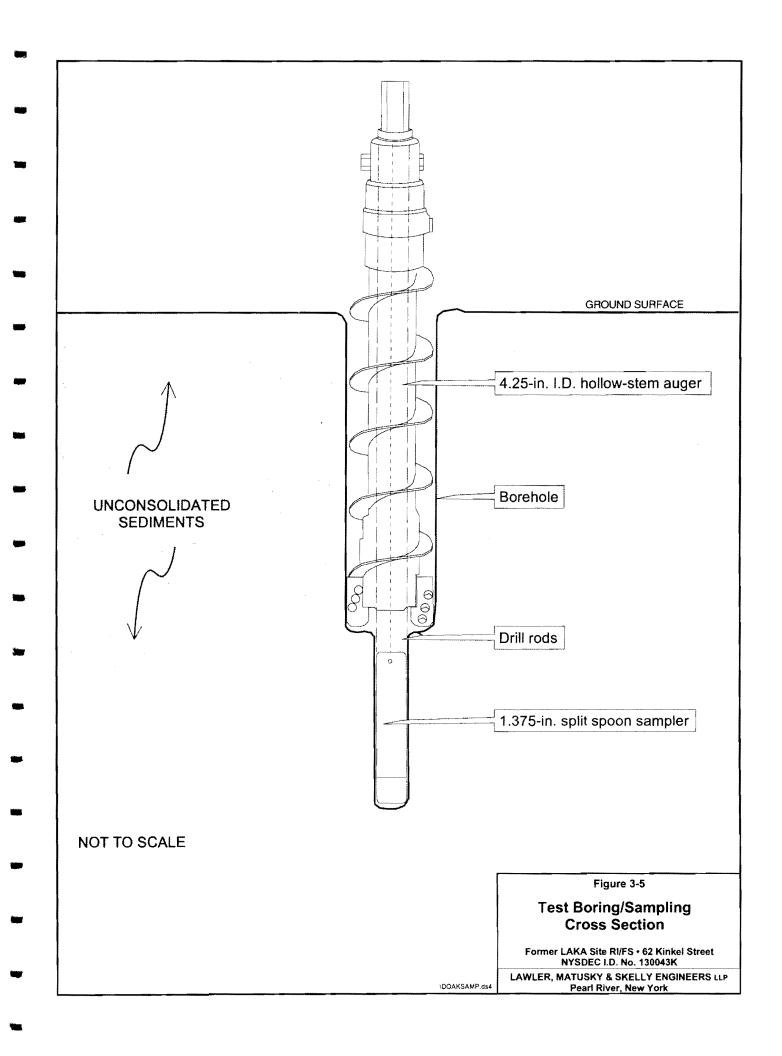
A = Shallow well

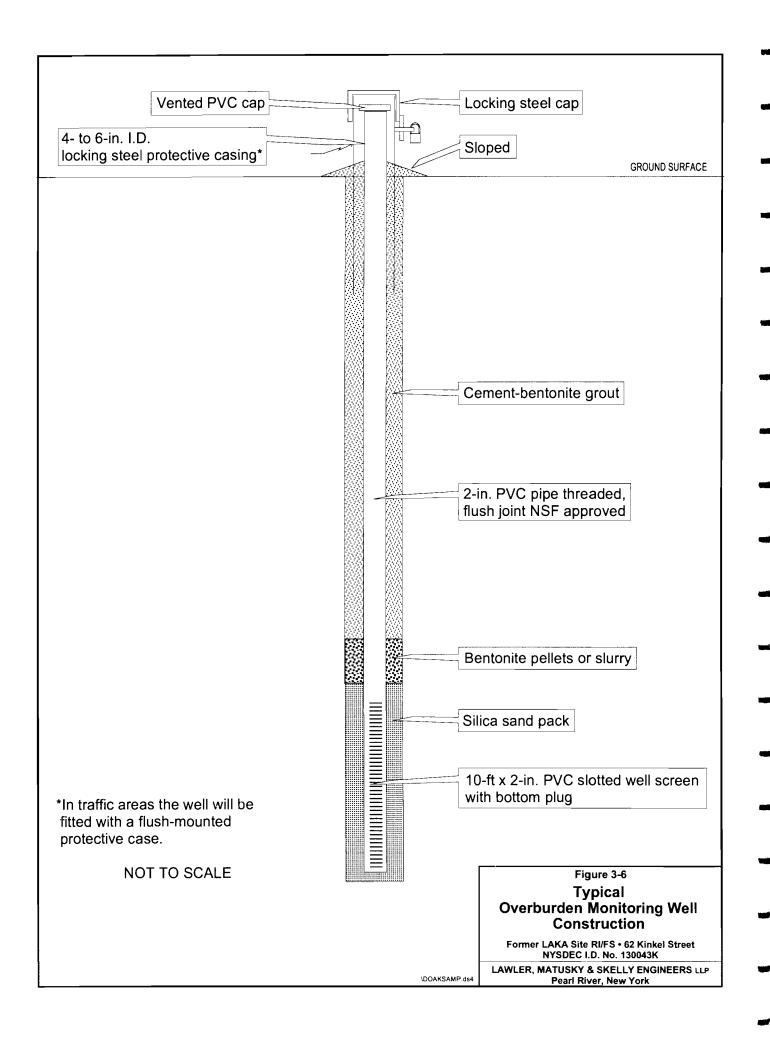
New monitoring well

B = Deep well

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filter pack surrounding the screened interval of each well consisted of No. 1 grade Morie sand installed to a minimum of 2 ft above the top of the screen. The well seal was installed above the sand pack. In deep wells the seal consisted of thick bentonite slurry since it was installed below the water table. Because the seal was above the water table in the shallow wells, a layer of bentonite pellets at least 2-ft thick was added to the annulus of the well and hydrated with water pumped down the borehole. After installing the sand pack and bentonite seal the remaining volume of the borehole was filled to just below the surface with a bentonite and cement grout. The remainder of the borehole was filled with clean sand to provide adequate drainage around the protective case. Finally, a flush mounted well cover was installed with a surrounding cement pad. All cuttings from the drilling of the wells were containerized in a 15 cubic yard hazardous waste rolloff located next to the west face of the Doak building. Installation details for each well can be found in the field well logs in Appendix B.

3.3.2 Monitoring Well Soil Sampling

During installation of each of the deep wells ('B' designation) soil samples were collected using a 1.375-in I.D. split spoon sampler (Figure 3-5). The sampler was driven with either a 140-lb or 175lb hammer in accordance with the standard penetration test method ASTM-D 1586. Sampling was not conducted during the drilling of the shallow wells ('A' designation) due to the close proximity to their deep counterparts. Samples were collected in 2-ft runs at 5-ft intervals from the ground surface to the bottom of the well boring. Upon recovery of the split spoon sample the soil was immediately scanned for VOCs using an FID or PID and the reading (relative to background), sample interval, soil description, blow counts, moisture content, color and evidence of contamination entered on a test boring log. Field boring logs completed during installation of the wells are contained in Appendix B. Portions of each sample were bagged and labeled for field reference and comparison purposes while drilling the remaining wells but no split spoon samples were sent off-site for chemical analysis. During installation of FLMW-202B, split spoon sampling was not initiated until reaching 60-ft bgs since logging of the soil to 60-ft had been done by ABB Environmental Services during their installation of MW-202 (FLMW-202B was installed as the deep counterpart of MW-202). In some cases the samples were taken at 10-ft intervals to expedite the installation if the LMS geologist judged the characteristics of the soil remain constant over a significant thickness.

3.3.3 Specific Monitoring Well Details

FLMW-202B This well, located in the alley north of the Doak building (Figure 3-3), was the first of the new wells drilled and installed. FLMW-202B is the deep counterpart to a pre-existing shallow well approximately five feet to the east. All deep wells were originally specified to be

completed to a depth of 110 ft bgs or at the bottom of the UGA. Due to difficulties in discerning the UGA-Magothy interface based on the split spoon samples it was decided that this boring would be advanced deeper than originally planned in an attempt to find a significant change in stratigraphy (i.e. confining layer). At 122 ft bgs drilling was halted since no confining layer was found. Delta Well and Pump drilled this well using a 4.25-in I.D. hollow stem auger over the course of three days from 14 to 16 January 1998. As described above, split spoon samples were not taken for the first 60 ft bgs during the drilling of this well. The well was set at 121 ft bgs with a screened interval from 111 to 121 ft bgs. The sand pack, bentonite slurry and grout were all installed according to NYSDEC specifications and a flush mount protective case and concrete pad with a slight rise for drainage was installed surrounding the well cover.

FLMW-206B This well was installed by Delta Well and Pump between 19 to 21 January 1998 at the north edge of the parking lot located at 54 Kinkel Street, just off the south face of the Doak building (Figure 3-3). Split spoon sampling was conducted from the surface to a depth of 110 ft bgs at 5-ft intervals. Total depth of the well is 111 ft bgs with a screened interval of 100 to 110 ft bgs. The filter pack, bentonite slurry and grout were installed in accordance with NYSDEC specifications. A flush mount protective case and concrete pad with a slight rise to insure proper drainage was installed surrounding the well cover.

FLMW-206A The shallow counterpart to FLMW-206B, FLMW-206A was drilled and installed by Delta Well and Pump on 21 January 1998 approximately 10 ft west of FLMW-206B (Figure 3-3). The well was set just short of 60-ft bgs with a static water level measured at 53.1 ft bgs. The screened interval for the well is 50 to 60 ft bgs. The filter pack and grout were installed according to NYSDEC guidelines. Bentonite pellets were added instead of bentonite slurry since the bentonite seal was above the water table. The bentonite pellets were allowed time to adequately hydrate before grouting the hole to the surface. A flush mounted protective case was then installed over the riser with a slightly raised concrete pad to insure good drainage.

FLMW-204A This well was installed as a shallow well upgradient from the former LAKA site. Delta Well and Pump drilled and installed FLMW-204A on 22 January 1998 in an alley west of 71 Sylvester Street (Figure 3-3). The alley was filled with scrap metal and pieces of metal duct work as well as pallets full of salvaged computer equipment (monitors, printers and CPUs). The amount of material in the alley made it necessary to shift the location of FLMW-204A/B further north in the alley than originally planned. Further complicating drilling in this alley was the presence of 1/8-in-thick steel plates buried as deep as one foot below the gravel at the surface. Several attempts were made at drilling in this location before the auger finally penetrated into natural material. The well, when completed, was set just over 60-ft bgs and screened from 50 to 60-ft bgs. The filter pack, bentonite pellets and grout were installed in accordance with NYSDEC guidelines. Due to the

amount of gravel at the surface it was decided that a slightly raised concrete pad surrounding the protective case would not be necessary for drainage. A small ring of concrete was poured and the protective case was inserted such that the cover was just above the level of the gravel. When the concrete set, displaced gravel was used to fill in the area around the cover so that it would be flush with the gravel and would not interfere with movement in the busy alleyway.

FLMW-204B Delta Well and Pump drilled and installed this deep well from 23 to 27 January 1998 approximately 20 ft southwest of FLMW-204A in the alley west of 71 Sylvester Street (Figure 3-3). Problems drilling around scrap metal buried by the surficial gravels were again encountered. Upon completion of drilling the well was set at a depth of 109.5-ft bgs with a screened interval over the final 10 ft. Filter pack sand, bentonite slurry and grout were all installed according to NYSDEC guidelines. Installation of the well cover was identical to that done for FLMW-204A.

FLMW-205A The final pair of wells installed for this phase of the investigation was completed in the right of way on the west side of Kinkel Street across from 54 Kinkel Street (Figure 3-3). The shallow well of the pair, FLMW-205A, was installed first by Delta Well and Pump from 27 to 29 January 1998. This boring was completed to a depth of 61 ft bgs and the well was set at 60.6 ft bgs and screened from the interval 50 to 60 ft bgs. The filter pack, bentonite pellets and grout were installed in the borehole to NYSDEC specifications. A flush mount protective case in a concrete pad was then installed over the PVC riser.

FLMW-205B As shown in Figure 3-3, this well was completed about 6 ft south of FLMW-205A by Delta Well and Pump on 29 January 1998. As drilling of the well proceeded, split spoon samples were collected at 5 ft intervals (10 ft intervals in some sections). FLMW-205B was drilled to a depth of 112 ft bgs and set at 110.9 ft bgs. The bottom 10 ft of the well consisted of 10-slot screen with filter pack sand added to six feet above the top of the screen. Bentonite slurry and cement/bentonite grout was added to the borehole as specified by NYSDEC guidelines. To protect the PVC riser, a concrete pad (with sloping sides for drainage) with flush mounted protective case was placed over the riser.

All seven of the newly installed wells were developed after installation. The new wells were allowed to set at least 24-hrs before development. In addition, six pre-existing monitoring wells (Figure 3-3) surrounding the former LAKA site were redeveloped in preparation for groundwater sampling. Well development logs detailing the development of all wells are contained in Appendix C. All development was done using a 2-in. submersible pump. The development water was pumped into a 250-gal holding tank before being discharged into a Nassau County sewer line. LMS was issued a permit by Nassau County to discharge development and purge water into two sewer manholes in the NCIA, at the intersection of Frost Street and Summa Avenue. Well development

commenced on 26 January 1998 and ended on 30 January 1998. The static water level was measured in each well prior to and after development. In addition, groundwater parameters such as pH, specific conductivity, temperature and turbidity were measured and logged during development. The older wells were redeveloped by pumping at a flow rate of approximately 2-gal/min for one hour and surging the well by rapidly starting and stopping the pump and by pumping at different levels within the water column. For all of the older wells this amount of pumping was enough to clear the water to very low turbidity values (< 3.0 NTUs). Development of the seven new wells was done until the well had been pumped for two hours or the turbidity measured less than 5.0 NTUs. All seven new wells were developed at a rate of 2.5-gal/min for two hours since surging and movement of the pump through the water column resulted in rapid alternation between relatively clear and turbid water being pumped to the surface. In all but one well the effect of pumping on the static water level was minimal with virtually instantaneous recovery noted when the ending water level was measured. Only in DOAK MW-2 was appreciable drawdown of the water column observed after development (almost 3-ft). However, the water level returned to that measured before development in approximately 10 minutes.

3.3.4 In-situ Hydraulic Testing

Slug tests were performed on each of the wells after sampling was collected to characterize the hydraulic conductivity of the aquifers in which the new monitoring wells were screened. The slug test relates the response of the aquifer to an artificial change in water level at the monitoring well over time. A pressure transducer was first lowered into the water column in the monitoring well to a level well below that of the static water level and carefully fixed at that level to prohibit any movement. The transducer and water level were allowed to equilibrate and a stainless steel slug was lowered into the well to a point just above the top of the water column. At that point the static water level was set to be the reference level for the transducer. From this point any fluctuation in water level was displayed as a positive or negative displacement relative to the reference water level. The slug was then lowered instantaneously into the water, displacing an equal volume of water and raising the water level. At the moment the slug was lowered the Hermit data logger was activated to record the change in water level detected by the pressure transducer through time. The Hermit logger coupled with the transducer made it possible to record a large number of water level measurements in a short period of time. This was especially important in the wells tested here since the UGA and Magothy Aquifers are highly permeable and exhibit very rapid recovery after being stressed. The Hermit logger was set to collect data on a logarithmic time scale such that many measurements were taken early in the test and the frequency of measurement would decrease with time. Once it was apparent that the water level had fully recovered (approximately 10 minutes) the data logger was stopped and programmed for the next phase of the test that involved the removal of the slug from the water column. The data logger was started and the slug was quickly pulled out of the water and the recovery response was again logged for about 10 minutes.

Data from the slug tests were downloaded from the Hermit logger to a PC and used in AQTESOLV, a hydraulic testing analysis program. AQTESOLV utilized the Bouwer-Rice method and a graphical solver to calculate the hydraulic conductivity of the aquifer based on the data collected in the field. Appendix D contains the graphical presentation of the in-situ hydraulic testing data and results from analysis of these data.

3.4 GROUNDWATER SAMPLING AND ANALYSIS

3.4.1 Groundwater Sampling Protocol

Groundwater sampling was conducted at the thirteen wells surrounding the LAKA site shown in Figure 3-7. Six wells were installed during previous investigations. All of these pre-existing wells are shallow with a maximum depth of 68 ft bgs. The remaining seven wells were installed for this investigation. Appendix E contains the field groundwater sampling logs completed during well sampling conducted 9 to 12 February 1998.

Prior to sampling, each well was purged to remove water inside the well. A minimum of three well volumes was removed to insure that water being sampled was representative of that contained in the aquifer. Purging of shallow wells with water column heights less than ten feet was done by hand bailing due to the small amount of purging necessary. The pre-existing shallow wells often had larger water columns requiring prohibitive lengths of time to hand bail the required amounts of water. These wells and all deep wells were purged using a 2" Grundfos submersible pump. During purging of the wells, pH, conductivity, temperature and turbidity were monitored at intervals determined by the amount of water necessary for adequate purging. All purge water was containerized in a 55-gal drum for transport to a pre-determined Nassau County sanitary sewer manhole where it was disposed of using an electric drum pump.

Groundwater samples were collected after purging using dedicated Teflon bailers. At each well three 40 mL pre-cleaned glass vials were filled for TCL VOC samples and two 950 mL plastic containers were filled, one for TAL metals and the other for CN analysis. Sampling parameters (pH, conductivity, temperature and turbidity) were measured and recorded on a sampling log at the beginning and end of sampling at each well. QA/QC samples, including field blanks, matrix spike and matrix spike duplicate, and a blind duplicate, were also collected. Upon collection of samples they were immediately packaged in protective wrap and placed in a secure, ice-filled cooler for storage in the field. At the end of each day all samples were logged on an appropriate chain of custody record and carefully packaged on ice for overnight shipment to Accredited Laboratories.

CHAPTER 4

PHYSICAL CHARACTERISTICS

4.1 TOPOGRAPHY

The land surface at the former Laka site is essentially level with an elevation of approximately 120 ft above mean sea level. The land in this area naturally has only a very gentle southward slope and the flatness has likely been enhanced in the area surrounding the site by grading done during construction of the large number of surrounding buildings.

4.2 SURFACE WATER

Due to the density of commercial property and industrial buildings, there are no significant sources of surface water directly surrounding the former LAKA site. Virtually every open space in the industrial area has been covered by asphalt, concrete, or buildings. The nearest sources are several small ponds in and around Eisenhower Memorial Park, approximately two miles southwest of the site across Old Country Road.

4.3 DEMOGRAPHY AND LAND USE

The former LAKA site is located in the town of North Hempstead (Nassau County, New York). Based on the 1990 census the population of the county is 1.3 million and of North Hempstead about 200,000 (U.S. Department of Commerce, 1990). The New Cassel Industrial Area (NCIA) is a heavily industrialized area of a variety of small to medium sized businesses covering about 25 blocks. The NCIA is bounded to the north by the Long Island Railroad, to the south by Old Country Road, to the east by the Wantagh Parkway and to the west by Grand Boulevard. For miles east and west of the NCIA, along Old Country Road, commercial property dominates while land use north and south of the area consists primarily of residential property.

4.4 ECOLOGY

Based on an ecological communities classification system outlined by NYSDEC the NCIA is entirely comprised of a terrestrial cultural community. The terrestrial cultural subsystem is defined by communities that are direct results of the influence of human activities or are modified to such an extent as to be significantly changed from the community as it was before alteration by humans (NYSDEC, 1990).

From the classification system utilized by the NYSDEC, five ecological communities dominate the The first community (NYSDEC terrestrial cultural community #16) accounts for NCIA. approximately 20% of the NCIA and is characterized by roads and paths paved with asphalt, concrete, brick and stone with only sparse vegetation present in cracks in the surface. Junkyards (NYSDEC terrestrial cultural community #30) that have been utilized for storage of refuse are another component of the NCIA ecology and account for approximately 10% of the NCIA. Urban vacant lots (NYSDEC terrestrial cultural community # 31) comprise about 10% of the NCIA. These lots are characterized by debris laden, sparsely vegetated open sites within a developed area where construction is pending or demolition has occurred. Urban structure exteriors (community #32) and interiors of non-agricultural buildings (community #35) compose the majority of the NCIA. Approximately 35% of the area is made up of the interior of non-agricultural buildings, including those used for commercial or industrial purposes. Urban structure exteriors make up approximately 25% of the area of the NCIA and include exteriors of commercial buildings or any inorganic structural surface. Typically, only sparse vegetation is present but birds and insects are common. (NYSDEC, 1990)

4.5 CLIMATOLOGY

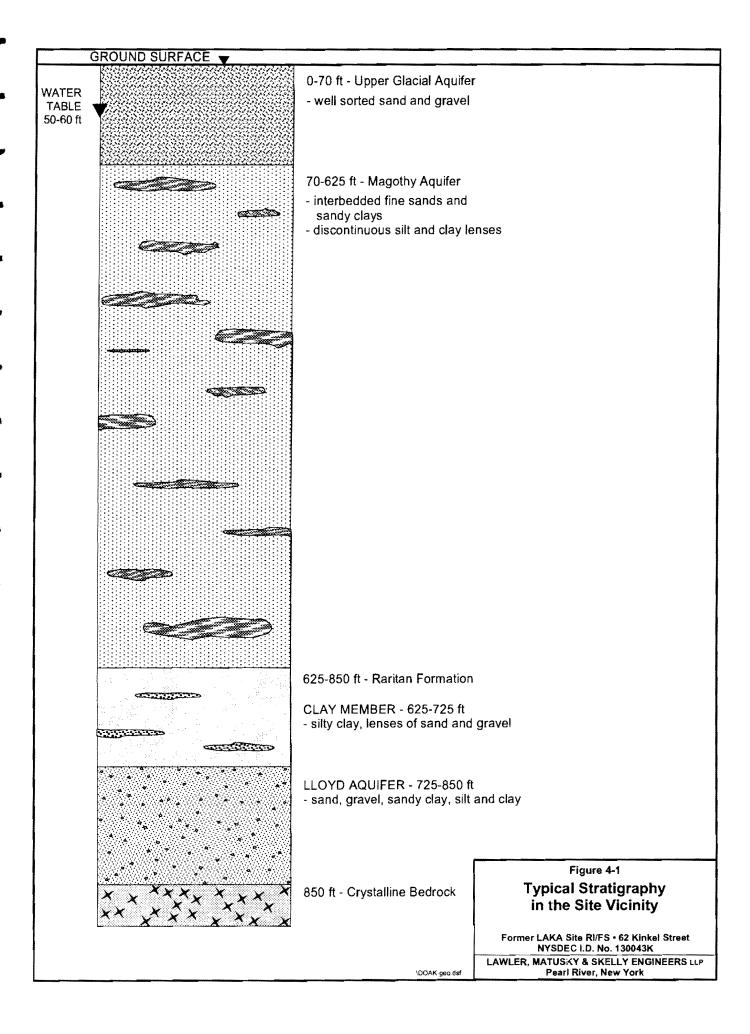
The climate of Long Island is moderated by its proximity to the ocean and land surfaces that are very close to sea level. Precipitation, distributed evenly through the year, averages about 44-in. per year with a range between approximately 32 and 58-in. per year. Rainfall amounts reach a maximum in August with 3 to 4.5 inches recorded in a typical year. Temperatures range from an average low of 32°F in January to an average high of about 75°F in July. The average annual temperature on Long Island over an 85 year period is 52.7°F (USGS, 1963).

4.6 GEOLOGY

4.6.1 Regional Geology

Long Island regional geology consists of a significant thickness of unconsolidated sediments (Cretaceous and Pleistocene age) overlying Precambrian and Paleozoic basement bedrock consisting of gneiss, schist and granite that forms the base of Long Island (Figure 4-1). The bedrock surface is found at an average depth of approximately 1000-ft below sea level and dips southward to the south shore of the island (USGS, 1989).

Directly above the bedrock lies the Raritan Formation, composed of the lower Lloyd Sand Member and an upper confining layer of clay. The Lloyd Sand Member is one of three important aquifers in the study area and consists of poorly sorted quartzose sands and gravel. The top of the Raritan



Formation is encountered at an average depth of approximately 400-ft below sea level with a maximum thickness of about 700-ft (USGS, 1989).

Unconformably overlying the Raritan Formation is the Magothy Formation, consisting of interbedded lenses and layers of fine to medium sand, clayer sand and solid clay with a basal gravel zone. The Magothy is the major aquifer for public supply to nearly all of Long Island. The depth of the upper surface of the Magothy is found at about 100-ft below sea level and the formation thickens to the south, reaching a maximum thickness of 1100-ft in some locations.

What lies above the Magothy Formation is a function of the geographical location on the island. In eastern Nassau County and Suffolk County the Monmouth greensand, a glauconitic greenish-grey to greenish black sand, silt and clay overlies the Magothy. This member acts as an upper confining unit for the Magothy, however, it has a very limited areal extent, pinching out about three miles inland from the south shore and disappearing altogether at the far eastern end of the island. Further west, in Kings and Queens counties, the Jameco Gravel, a mix of poorly sorted sands and small gravel, can be found in a layer approximately 100-ft thick extending from the south shore to the middle of the island (USGS, 1989).

The Gardiners Clay is another confining unit for the Magothy Formation or Jameco Gravel (if present) but it also has a relatively small areal extent. The occurence of the Gardiners Clay is limited to the south shore of the island, pinching out 5 to 10 miles inland from the shore. As the name implies, the Gardiners is characterized by greyish-green, glauconitic, silty clay with a maximum thickness of approximately 150-ft (more typically about 50-ft) (USGS, 1989).

Above the Gardiners Clay or the Magothy (where the Gardiners is absent) are upper Pleistocene deposits of clay, sand, gravel and boulders commonly referred to as the UGA (upper glacial aquifer). These deposits are composed of glacial till (morainal materials to the north and outwash deposits to the south) and constitute another important water source for the island (Buxton and Modica, 1992).

4.6.2 Study Area Geology

The geology underlying the former LAKA site in east-central Nassau County is somewhat simpler than the regional geology detailed above. The upper Pleistocene deposits of poorly sorted sands and gravel that make up the UGA are found from the surface to a depth of approximately 70-ft below the surface. The site is located far enough north and east in Nassau County such that the Gardiners Clay, Jameco Gravel and Monmouth greensand are all absent between the UGA and the underlying Magothy Formation. In general, the upper surface of the Magothy Formation is found at

least 100-ft below ground surface (USGS, 1989). However, based on observations made during installation of wells for this investigation and on published cross sections of the area (USGS, 1989), the Magothy is found at significantly shallower depths (70-ft bgs) in the Westbury (New Cassel) area than in many other areas of the island.

The nature of the materials collected in split spoons during installation of FLMW-202B, -204B, -205B and -206B were relatively consistent. As noted earlier, no samples were collected from FLMW-202B until a depth of 60-ft bgs was reached. However, it was noted that cuttings were typical of UGA material; orange-brown poorly sorted sands and quartz gravel. Beginning at a depth of 70-ft bgs, the material from FLMW-202B split spoons became significantly finer and displayed a variety of colors. This was interpreted as the transition from the UGA to the Magothy aquifers. Very fine sand and silt became common in these samples and stringers of grey clay began to appear. Between 80 and 105-ft bgs, multicolored (red, grey, purple, orange and brown) layers of silt and very fine to fine sand dominated the stratigraphy. From 110-ft bgs to the bottom of the borehole at approximately 120-ft bgs the multicolored banding of material became less prominent and iron staining and cementation of grains was observed in each sample. For the most part, silt, fine sand and clay comprised the majority of the material in this interval.

Split spoon samples taken during the drilling of FLMW-204B, -205B and -206B exhibit a transition between the UGA and the Magothy similar to that seen in FLMW-202B. In FLMW-205B the transition was noted at approximately 60-ft bgs. The top of the Magothy appeared even shallower, approximately 45-ft bgs, in FLMW-206B. Poor sample recovery was encountered due to problems with running sands in FLMW-204B. Because of this, it was difficult to determine where the transition between the UGA and the Magothy occurred. Based on the samples that were recovered the contact between the two aquifers is between 60 and 80-ft bgs.

4.7 SOILS

The soils in the area around the former LAKA site are medium - coarse grained, well drained soils of the Haven Variant association. This association is typically a deep soil formed on the nearly level land (0-3%) of the southern outwash plain. At depths between 20 to 36 inches the loamy, upper soils are underlain by stratified sands and gravel. The upper soil material is moderately permeable while the deeper sand and gravel has a very high permeability (USSCS, 1976).

4.8 HYDROGEOLOGY

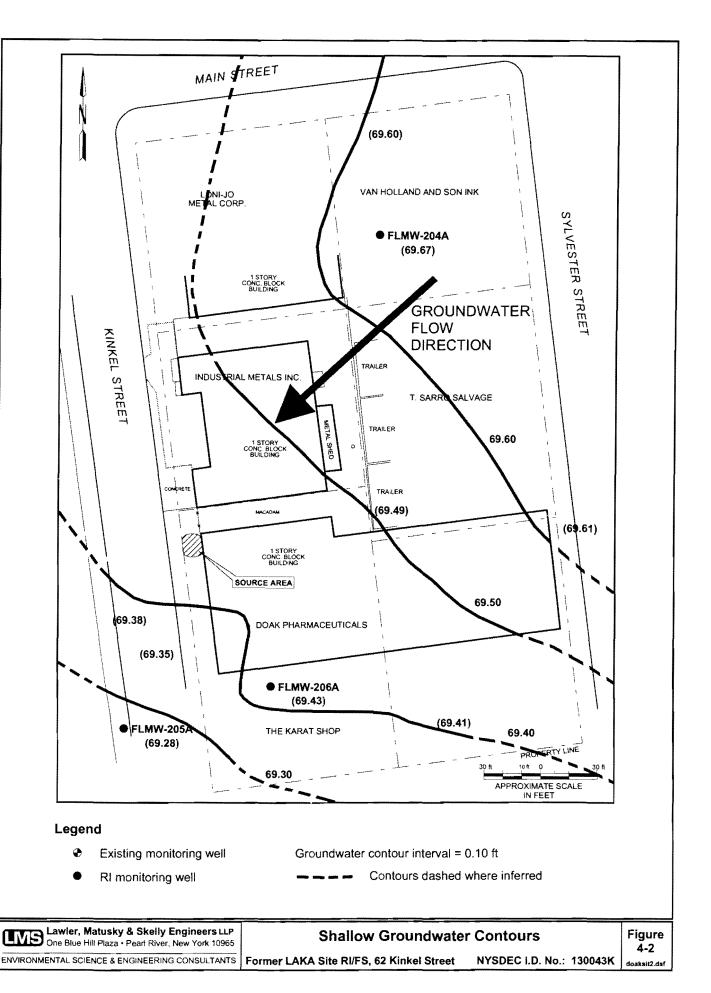
4.8.1 Regional Hydrogeology

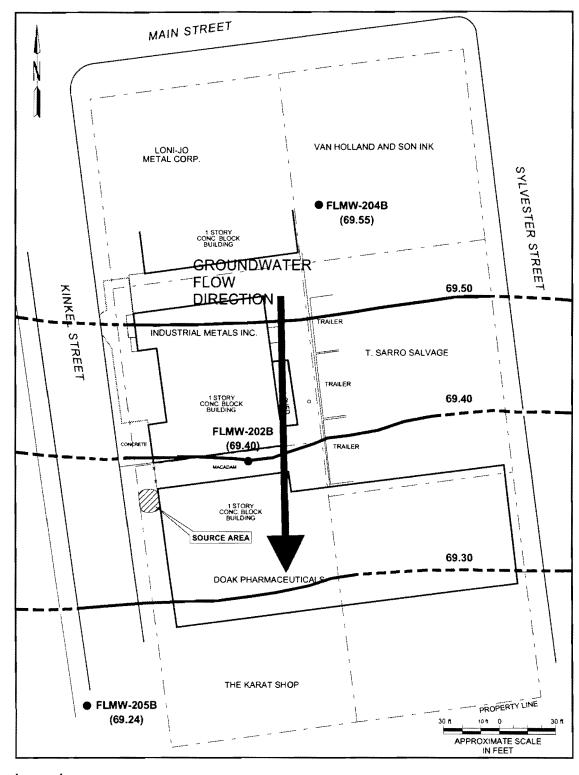
As outlined in the description of the regional geology of the area, there are three principal aquifers in the stratigraphic sequence of Long Island (Figure 4-1). The deepest of these aquifers is the Lloyd Sand member of the Raritan Formation, which is confined on the bottom by the metamorphic and igneous basement rock and by the overlying Raritan confining unit. The Lloyd is characterized as poorly to moderately permeable with hydraulic conductivities on the order of 10-ft/d. anisotropy ratio $(K_x:K_z)$ of the Lloyd aquifer is approximately 10:1 (USGS, 1989). Above the Lloyd aquifer is the Magothy Aquifer, confined on the bottom by the Raritan confining unit and, in places, on top by the Monmouth greensand or the Gardiners Clay. The Magothy is an extensive aquifer with horizontal hydraulic conductivities averaging about 50-ft/d and an anisotropy ratio of 100:1. The Jameco Gravel is a relatively thin water-bearing unit stratigraphically above the Magothy that is found only in the far western extent of Long Island. Overlying the Magothy is another extensive aquifer, the UGA (upper glacial aquifer). The UGA serves as the unconfined, water table aquifer from the ground surface to depths up to 700-ft and covers all of Long Island. Horizontal hydraulic conductivities in the UGA average over 200-ft/d with an anisotropy ratio of 10:1. Conductivities of UGA material from the southern half of the island (outwash) are about twice that of northern UGA material (morainal)(Buxton and Modica, 1992). Due to the southward dip of the sedimentary sequences, the younger UGA is in direct hydraulic connection with the Lloyd Sand Member aquifer as well as the Magothy Formation.

4.8.2 Study Area Hydrogeology

The hydrogeology of the area surrounding the former LAKA site is relatively simple, consisting of two main water-bearing units, the UGA and the deeper Magothy Aquifer. The Lloyd Sand Member of the Raritan Formation was not considered in this investigation as it is found at a depth over 600-ft in the study area. The UGA is an unconfined aquifer consisting of poorly sorted sands and gravels. The Magothy is the sole source aquifer for the study area and consists of finer sand, silt and small amounts of clay. Following NYSDEC and USEPA regulations, both the UGA and Magothy are protected as sole source aquifers on Long Island.

A confining layer between the UGA and the Magothy, the Gardiners clay, is not evident in the borings done during this investigation. Due to the lack of this confining layer, the UGA and Magothy are in direct hydraulic connection. Depth to water is about 50 to 55 ft below the ground surface in the study area and the hydraulic gradient is approximately .0006 ft/ft to the southwest (Figure 4-2 and Figure 4-3).





Legend

Existing monitoring well

Groundwater contour interval = 0.10 ft

RI monitoring well

Contours dashed where inferred

Deep Groundwater	Lawier, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965
Former LAKA Site RI/FS, 62 Kinkel Street	ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS

Based on analysis of in-situ hydraulic tests performed during this investigation, hydraulic conductivity values for the UGA in the study area range from 58 to 391 ft/day. Hydraulic conductivity values based on slug tests conducted in deeper wells (Magothy Aquifer) were generally lower, ranging from 4 to 103 ft/day. A compilation of the data used in determining these values and a table of all hydraulic conductivities determined through in-situ testing are contained in Appendix D.

CHAPTER 5

NATURE AND EXTENT OF CONTAMINATION

5.1 PREVIOUS INVESTIGATIONS

5.1.1 NYSDEC PSA Sampling Data

In 1995 NYSDEC contracted LMS to conduct a Multisite PSA in the NCIA. Included in this investigation was an assessment of the Kinkel/Sylvester Street site in the central portion of the industrial area. This PSA investigation included the sampling of groundwater from various monitoring wells and the geoprobe soil sampling in the Kinkel/Sylvester Street block. Detailed file reviews of the past and present occupants of 62 Kinkel Street indicated that a tool and die manufacturer, LAKA Tool and Stamping and LAKA Industries occupied the site from 1971 to 1984. Nassau County Department of Health records indicated that LAKA Industries used 55 gal/year TCE for degreasing purposes.

Ground penetrating radar surveys conducted during the PSA of the 62 Kinkel Street property indicated that former leachpools were possible along the northern property line. Soil probe samples collected at a location off the northwest corner of the building indicated a possible contaminant source area. These samples were taken from sludge recovered at a depth of approximately 16 feet and contained extremely high levels of TCE (3,900 mg/kg) and cis-1,2-DCE (640 mg/kg). PCE-related contaminant levels appeared to decrease with depth, with an estimated concentration of 1.56 mg/kg present at a depth of 18 feet.

Groundwater probe samples taken at this location indicated high levels of PCE-related contamination at shallow and intermediate depths when compared to levels detected at the same depths in an upgradient point. The concentration at the shallow depth was 660 μ g/l compared to 36 μ g/l at the upgradient point while at the intermediate depth, concentrations were 4080 μ g/l in the source area and only 105 μ g/l upgradient. Monitoring well DOAK MW-3 was also sampled since it was, during the time of the investigation, the only well downgradient of the probable source area in the immediate vicinity. Contamination was also detected in groundwater from this well in the form of cis-1,2-DCE (340 μ g/l). Based on the high soil contamination and the emergence of a groundwater contamination plume from the site, LMS recommended that the former LAKA industries site be listed on the registry of hazardous waste sites.

5.1.2 NYSDEC Focused Remedial Investigation - 68 Kinkel Street

In April 1996, under contract to NYSDEC, ABB Environmental Services (ABB-ES) conducted field investigations for a Focused Remedial Investigation of the former Tishcon site at 68 Kinkel Street (upgradient of the former LAKA site). This investigation involved probe soil sampling at eleven points surrounding the former Tishcon site as well as the installation of three new shallow monitoring wells (MW-201, MW-202 and MW-203). ABB-ES sampled groundwater from these new wells and from three existing wells (DOAK MW-1, DOAK MW-2 and DOAK MW-3).

Soil samples collected from a probe point (GP-201) in the southeast corner of the former Tishcon site revealed the presence of PCE (0.077 mg/kg) and 1,1,1-TCA (0.011 mg/kg) at 0 to 2 ft bgs. In addition, these same contaminants were detected at 20 to 22 ft bgs in concentrations estimated at 0.011 mg/kg and 0.021 mg/kg, respectively.

Samples from GP-212, taken from within the building on the former Tishcon site, indicated the presence of PCE (0.064 mg/kg) and 1,1,1-TCA (0.012 mg/kg) at depths between 0 and 2 ft bgs. PCE levels were estimated at 0.002 mg/kg from 6 to 8 ft bgs.

Soil collected from GP-214, inside the building and south of GP-212, revealed methylene chloride at an estimated concentration of 0.002 mg/kg, PCE (0.066 mg/kg) and 1,1,1-TCA (0.012 mg/kg). Contamination was only detected at a depth of 0 to 2 ft bgs.

Relatively low levels ($<10 \mu g/kg$) of PCE, 1,1,1-TCA and TCE were found in the samples collected from the eight additional geoprobe locations on the former Tishcon site.

Groundwater samples collected from DOAK MW-1 showed the presence of 1,1,1-TCA (97 μ g/L) and PCE (52 μ g/L) as well as other VOCs at low levels (<10 μ g/L). Seven VOCs were detected in groundwater collected from DOAK MW-2 (on the former LAKA site) including 1,1,1-TCA at a concentration of 110 μ g/L. Relatively high concentrations of 1,2-DCA (estimated 370 μ g/L) and TCE (120 μ g/L) along with 1,1,1-TCA (21 μ g/L) and PCE (28 μ g/L) were detected in samples of groundwater from DOAK MW-3.

Sampling of MW-201 (upgradient of both the former Tishcon and LAKA sites), installed for the FRI conducted by ABB-ES, indicated the presence of very low levels of PCE (estimated 5 μ g/L) and other VOCs (estimated \leq 2 μ g/L). Higher concentrations of 1,2-DCA (62 μ g/L), 1,2-DCE (13 μ g/L), 1,1-TCA (89 μ g/L) and PCE (15 μ g/L) were found in MW-202 (in the alley between 62 and 68 Kinkel Street). MW-203 (across the street from 62 Kinkel Street) was also sampled and

found to contain 1,1-DCA (10 μ g/L), 1,2-DCE (total) (99 μ g/L), 1,1-TCA (33 μ g/L), TCE (19 μ g/L) and PCE (14 μ g/L) as well as other VOCs at low concentrations (estimated \leq 3 μ g/L).

5.1.3 Additional On-site Sampling

Geoprobe groundwater sampling was conducted by LMS during a 1993 Phase I Site Investigation at point GP-14 in front of the DOAK building. This was the only point sampled near the former LAKA site during the Phase I investigation. Contaminants detected at this point include PCE (479.3 μ g/L) and TCA (489 μ g/L) from water samples taken between the top of the water table (approximately 55 ft bgs and 65 ft bgs). PCE (143 μ g/L) and TCA (510 μ g/L) were also detected in water collected between 65 and 85-ft bgs. No contamination was found in water collected below 85-ft bgs. Groundwater samples were also collected from 56 wells in the New Cassel Industrial Area for the Phase I investigation, however, no wells in the Kinkel-Sylvester Street block were sampled.

In 1994 a Phase II Site Investigation was conducted in the NCIA to delineate contaminant plumes in groundwater below the area. This investigation included the sampling of soils from two geoprobe locations (SGP-108 and SGP-109) and two monitoring wells (DOAK MW-1 and DOAK MW-2) on the former LAKA site. PCE and TCA contamination was detected at low levels (< 2 μ g/l) in samples collected from 20 to 22-ft bgs from SGP-108 and SGP-109. Groundwater samples collected from DOAK MW-1 indicated PCE and TCA contamination at higher levels (102.8 μ g/l and 134 μ g/l, respectively). Still higher levels of contamination were found in groundwater from DOAK MW-2. PCE was detected at a concentration of 104.9 μ g/l and the level of TCA was found to be 578 μ g/l.

5.2 REMEDIAL INVESTIGATION ANALYTICAL RESULTS

5.2.1 Probe Sampling Data

5.2.1.1 Phase I Soil Probes.

VOC Sampling. A total of 26 locations were probed at the former LAKA site. Twelve points were located at or directly surrounding the known source leachpool at the northwest corner of 62 Kinkel Street. Twelve other points were located adjacent to the north and west faces of the building where additional source areas were suspected. Two probes were done into the drainage grate in the parking lot of 54 Kinkel Street to obtain sludge samples. A summary of VOC sampling results for

probe soil and sludge samples are contained in Tables 5-1 and 5-2, respectively. Field sampling logs are compiled in Appendix A.

From the twelve borings completed around the known source area, 37 samples were analyzed for VOCs to more accurately delineate the areal and vertical distribution of contamination. Of these twelve borings, only five locations exhibited VOC contamination other than Tentatively Identified Compounds (TICs) (Figure 5-1). Appendix H contains summary sheets of the analytical data from probe samples.

Boring FLGP-2 was completed to 24 ft bgs on 6 January 1998. FLGP-2 contained ethylbenzene (1.4 mg/kg), xylene (1.5 mg/kg) and low concentrations of TCE (0.011 mg/kg) at a depth of 1 to 2 ft bgs. Ethylbenzene (0.16 mg/kg), xylene (0.96 mg/kg) as well as low concentrations of TCE (0.003 mg/kg) and toluene (.004 mg/kg) were also detected at 8 to 9 ft bgs in FLGP-2.

On 6 January 1998, FLGP-3 was completed to refusal at 42 ft bgs in an unsuccessful attempt to sample water directly below the source area. Contamination was detected deeper here than in any other boring completed in the study area. At a depth of 4 to 5 ft bgs 1,2 DCE (0.034 mg/kg) and TCE (0.08 mg/kg) were detected. TCE was also found from 11 to 12 and 14 to 16 ft at levels of 0.024 and 0.009 mg/kg, respectively. From 16 to 17 ft bgs TCE (0.410 mg/kg) and PCE (0.028 mg/kg) were detected. TCE (0.680 mg/kg) and PCE (0.047 mg/kg) along with lower levels of xylene (0.022 mg/kg) and toluene (0.012 mg/kg) were detected at a depth of 20 to 21 ft bgs. In the deepest sample collected from FLGP-3, at 34 to 35 feet bgs, TCE (0.580 mg/kg), PCE (0.068 mg/kg), ethylbenzene (0.013 mg/kg), xylene (0.066 mg/kg) and toluene (0.012 mg/kg) were detected.

FLGP-4 was advanced to refusal at 48 ft bgs in another attempt at sampling groundwater below the source area. This boring was completed on 6 January 1998 at a location southeast of FLGP-3. TCE (0.017 mg/kg), ethylbenzene (0.099 mg/kg) and xylene (0.4 mg/kg) contamination was found in samples taken from this boring at a depth of 8 to 9 ft bgs. TCE (0.022 mg/kg) was also found in FLGP-4 from 13 to 14 ft bgs.

In samples collected from boring FLGP-7 (completed to 24 ft bgs on 6 January 1998), TCE (0.12 and 0.014 mg/kg) was detected at depths of 10 to 11 and 14 to 16 ft bgs, respectively. 1,2 DCE was also detected at a concentration of 0.080 mg/kg in the sample collected from 10 to 11 ft bgs.

The final boring surrounding the source area that exhibited contamination was FLGP-14, completed on 8 January 1998 to a depth of 41 ft bgs (refusal at hardpan or gravel layer). TCE was detected at a concentration of 0.084 mg/kg in a sample collected from 15 to 16 ft bgs.

TABLE 5-1 (Page 1 of 8)

SOIL PROBE DATA SUMMARY (JANUARY 1998) Former Laka Site RI/FS

PARAMETER	FLGP-01 (8 - 10 ft)	FLGP-01 (14 - 17 R)	FLGP-01 (20 - 22 ft)	FLGP-02 (1-2 m)	FLGP-02 (5 - 6 ft)	FLGP-02 (8-9 ft)	RECOMMENDED SOIL CLEANUP OBJECTIVES (b)
TCL VOLATILE ORGANICS (mg/kg)							
Acetone	ND	ND	ND	4.3 d	ND	0.93 d	0.2
Trichloroethylene	ND	ND	ND	0.011 j	ND	0.003 j	0.7
Toluene	ND	ND	ND	0.014	ND	0.004 i	1.5
Ethylbenzene	ND	ND	ND	1.4 d	ND	0.16	5.5
Xviene (total)	ND	ND	ND	1.5 d	ND	0.96 d	1.2

PARAMETER	FLGP-02 (22 - 23 ft)	FLGP-03 (4-5 ft)	FLGP-03 (11 - 12 ft)	FLGP-03 (14 - 16 ft)	FLGP-03 (16 - 17 ft)	FLGP-03 (20 - 21 ft)	RECOMMENDED SOIL CLEANUP OBJECTIVES (b)
TCL VOLATILE ORGANICS (mg/kg)							
Methylene chloride	ND	ND	ND	ND	ND	0.032 b	0.1
Acetone	ND	ND	0.011 j	0.007 j	0.039 ь	0.038 b	0.2
1,2-Dichloroethylene (total)	ND	0.034	ND	ND	0.010 j	ND	NS
Trichloroethylene	ND	0.080	0.024	0.00 9 j	0.41 d	0.68 d	0.7
Tetrachloroethylene	ND	ND	ND	ND	0.028	0.047	1.4
Toluene	ND	ND	ND	ND	ND	0.012	1.5
Ethylbenzene	ND	ND	ND	ND	ND	0.005 j	5.5
Xylene (total)	ND	ND	ND	ND	ND	0.022	1.2

BOLD - VALUE EXCEEDS RECOMMENDED SOIL CLEANUP OBJECTIVES.

- (b) NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94.
 Concentration recovered from diluted sample.
 Estimated concentration; compound present below quantitation limit.
 Not detected at analytical detection limit.

TABLE 5-1 (Page 2 of 8)

SOIL PROBE DATA SUMMARY (JANUARY 1998) Former Lake She RVFS

PARAMETER			PLGP-04	FLOP 64 (32 - 34 m)	RECOMMENDED SOIL CLEANUP OBJECTIVES (b)
TCL VOLATILE ORGANICS (mp/hg) Methylene chloride Acelone 1,2-Dichloroethylene (total) Trichloroethylene Tetrachloroethylene Tetrachloroethylene Ethyloenzene Xylene (total)	0.03 0.08 NE 0.55 0.00 0.00 0.00	7 b 0.022 b 0.008 j d 0.017 B ND 2 0.002 j 3 0.099	ND ND 0.022 0.005 j	0.004 j ND ND ND ND NO NO	0: 0: 0: 0: 0: 1: 1: 1: 1: 1:

	< FLG₽-05	FLGP-05	FLGP-DS		FLGP-07	FLGP-07	FLGP. 01	RECOMMENDED SOLCLEANUP
PARAMETER	(9 - 10 ft)	(18-17 R)	- (10 - 11 m)	(20-22 ft) S	(10 - 11 m)		(18 · 20 ft	
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		**************************************	
CL VOLATILE ORGANICS	(ma/ka)							
CL VOLATILE ORGANICS	(mg/kg) 0.032 b	0,904j	ND	ND	i eco.c	0,009.)	0.002	
CL VOLATILE ORGANICS lethylene chloride ,2-Dictyoroethylene (total)		0.004j dn	NO ND	ND ND	0.009 j 0.050	0.609) ND	0.002 j	

⁽a) - NYSOEC Division Tricknical and Administrative Guidence Manorandum (TADM), 194.

NOT a Not distincted at amalytical distortion limit.

MS - No standard.

ti - Franci in insociated titinits.
d. - Concentration received from diluted sample.

[·] Estimated concernation; compound present balow quantistian limit.

TABLE 5-1 (Page 3 of 8)

SOIL PROBE DATA SUMMARY (JANUARY 1998) Former Laka Site RVFS

PARAMETER TCL VOLATILE ORGANICS		2(10 - 25 m)	(18 - 20 m)	(22 - 24 ft)	* II - 7 (0)	(16 - 18 M)		OPPECTATES (9)
Methysene chloride	0.000 j	0,005 (0.006 i	ND	ND	ND	4.15%	1

PARAMETER	FLOP-10 **	FLGP-10 (17 -18 ft)		FLGP-11 (19 - 20 m)	FLGP-11 (22 - 24 N)	PLOP-14 (15-16 N)	FLGP-14	
TCL VOLATILE ORGANICS Methylene chlande 1,2-Dichloroethylene (rotal) Trichloroethylene	(mg/kg) ND ND	NÜ ND ND	ND NO ND	MD MD MD	DOD3) CIA ND ND	ND 0.044 0.084	0,603) MD MD	0.1 NS 0.7

PARAMETER	A	PLGP-15 (11-12-70	#LOP-15 (19 - 20 P)	FLGP-48 (41 - 42 (1)	7 0 P - 10 P	FLGP-18 (18 - 10 FT)		BOIL CLEAME OBJECTIVES (*
TOL VOLATILE OR Methylene charide	(GAMICS (mg/kg) ND	0,004]	0,008 b j	0.063;	D. ÖDB b j	0.008 b j	(# 0 r a .p	1	

⁽FACM), 154.

ND - Not deterried at analytical detection limit.

NS - No standard

b A Found in associated blanks.

Estimated concentrations; compound present below quantitation trait.

TABLE 5-1 (Page 4 of 8)

SOIL PROBE DATA SUMMARY (JANUARY 1998) Former Lata Ste RVFS

PARAMETER	FLOP-17	FLOP-/11 (9 - 10 T)	FLGP-18 (23 - 24 m)	FLOP-19 (4 - 5 7s)	FLGP-IR	FLGP-10 (22 - 24 M)	PLCP-38 (8 - 4 ft)	PLGP-20 (N10 M)	RECOMMENDED SOIL CLEANUP (IBJECTIVES (III)
TCL VOLATILE ORI Methylene chloride Trichlorgethylene Xylene (total)	GANICS (mg D.009 b.) ND ND	/kg] 0.009 b j ND ND	Q.DIM 6) ND ND	0.010 5 (NO NO	0.007 bj ND ND	0.010 b j ND ND	0.013 0.005 j 0.004 j	0.007 [4.7

PAJAMETER	(12 - 13 R)	FLOP-20 [23 - 24 町	FLGP-21	FLGP-21 (10 - 11 III)	FLGP-21	· a division	FLGP-22 (18 - 20 N)	FLCP-23 (2-3 (1)	RECOMMENDED BOIL CLEANUP OBJECTIVES (b)
TCL VOLATILE ORG	GANKS (mg/l	kg)		······································					
Trichleroethylene	Q.014	ND	ND	NO	ND	ND	MD	ND C	(()
Tetrachiorosthylene	0 000 j	ND	ND	NO	ND	ND	ND	ND	

⁽b) NYSDEC Drésion Technical and Administrative Guidance Mamphindum (TAGAR, 1994, b) - Found in essential blanks.

 ^{*} Estimated concentration, compound present below quantizars 2011.

Mile - Not detected at analytical detection (m):

TABLE 5-1 (Page 5 of 8)

SOIL PROBE DATA SUMMARY (JANUARY 1998) Former Laka Site RI/FS

	FLGP-23	FLGP-24	FLGP-24	FLGP-25	FLGP-25	FLGP-26	FLGP-26	FLFB-01	RECOMMENDED SOIL CLEANUP
PARAMETER	(18 - 19 ft)	(2-3FT)				(12 - 13 N)		(hg/l)	OBJECTIVES (b)
TCL VOLATILE ORGA	ANICS (mg/k ND	(g) ND	ND	0.002 j	ND	ND	ND	ND	0.1

 ⁽b) - NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94.
 j - Estimated concentration; compound present below quantitation limit.
 ND - Not detected at analytical detection limit.

TABLE 5-1 (Page 6 of 8)

SOIL PROBE DATA SUMMARY (JANUARY 1998) Former Laka Site RVFS

PARAMETER	FLGP-02 (8-9 ft)	FLGP-03 (18 - 19 ft)	FLGP-05 (9 - 10 ft)	FLGP-05 (16 - 17 ft)	FLGP-06 (10 - 11 ft)	FLGP-08 (20-22 ft)	EASTERN USA BACKGROUND SOIL CONCENTRATIONS (b)	RECOMMENDED SOIL CLEANUP OBJECTIVE (b)
TAL METALS (r	ng/ka)							
Aluminum	1,320 E R	2,840 E R	3,060 E R	2,360 E R	1,860 E R	2,120 E R	33,000	S8
Antimony	5.4 B N	ND N	ND N	ND N	ND N	NDN	0.6 + 10 (n)	SB
Arsenic	4.4	8.3	ND	3.8	3.0	ND	3.0 - 12.0 m	7.5 or SB
Barium	4.1 B N	22 B N	9.4 B N	9.6 B N	8.9 B N	2.4 B N	15 - 600	300 or SB
Beryllium	0.10 B N	ND N	ND N	ND N	0.12 B N	0.16 B N	0+1.75	0.16 or SB
Cadmium	ND N	0.82 N	ND N	ND N	ND N	NDN	0.1 + 1.0	1 or SB
Calcium	49,300 E R	10,300 E R	375 B E R	384 B E R	318 B E R	244 B E R	130 - 35,000 æ	88
Chromium	8.2 N R	13 N R	1.9 B N R	10 N R	4.1 N R	7.6 N R	1.5 - 40.0 m	10 or SB
Cobalt	1.6 B N	2.2 B N	1.8 B N	ND N	2.3 B N	1.9 B N	2.5 - 60.0 cm	30 or SB
Copper	4.6 B N	20 N	3.5 B N	24 N	3.0 B N	3.5 B N	1,0 + 50.0	25 or SB
ron	4,330 E R	6,970 E R	5,000 E R	5,720 E R	3,630 E R	5,810 E R	2,000 - 550,000	2,000 or SB
₋ead	6.4 SA N	9.0 SA N	2.1 N	4.0 SA N	3.3 N	2.3 N	4.0 - 61 or 200 - 500*	SB*
Magnesium	29,000 E R	1,120 E R	450 B E R	435 B E R	333 B E R	138 B E R	100 + 5,000	SB
Manganese	81 E N	86 E N	43 E N	37 E N	85 E N	41 E N	50 + 5,000	SB
Mercury	0.15 N	0.15 N	0.31 N	ND N	0.28 N	0.15 N	0.001 - 0.2	0.1
Nickel	2.2 B N	97 N	ND N	3.3 B N	1.7 B N	ND N	0.5 - 25	13 or SB
Potassium	244 B	379 B	239 B	388 B	316 B	ND	8,500 × 43,000 ee	S8
Selenium	ND	ND	ND	ND	ND	ND	0.1+3.9	2 or \$8
Silver	2.4 N	3.5 N	1.9 B N	3.4 N	1.7 B N	2.9 N	0.1 - 5.0 (n)	SB
Sodium	205 B	137 B	113 B	102 B	106 B	85 B	6,000 - 8,000	88
Thallium	ND	ND	ND	ND	ND	ND	0.1 - 0.8 (q)	SB
Vanadium	7.1 B N	6.7 B N	5.1 B N	4.8 B N	3.3 B N	8.2 B N	10-300	150 or SB
Zinc	5.9 N R	29 N R	13 N R	30 N R	5.9 N R	11 N R	9.0 - 50	20 or SB
Cyanide	0.03 B	0.53	ND	0.04 B	ND	0.04 B	N/A	**

BOLD - VALUE EXCEEDS RECOMMENDED SOIL CLEANUP OBJECTIVES.

- Background levels for lead range from 4 to 61 ppm in undeveloped, rural areas to 200 to 500 ppm in metropolitan or suburban areas or
- ** Some forms of cyanide are complex and stable, while other forms are pH dependent and hence are very unstable. Site-specific form(s) or cyanide should be taken int consideration when establishing soil cleanup objectives.

- or cyanide should be taken int consideration when establishing soil cleanup objectives.

 New York State background concentration.

 NySDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94.

 Dragun, J., The Soil Chemistry of Hazardous Materials.

 Bowan, H.J., Environmental Chemistry of the Elements.

 Value is less than the contract-required detection limit but greater than the instrument detection limit.

- E Value estimated due to interference.
- N Spiked sample recovery is not within control limits.
- R Duplicate analysis not within control limits.
- N/A Not available.
- ND Not detected at analytical detection limit.
- SA Value determined by the method of standard addition.
- SB Site background.

TABLE 5-1 (Page 7 of 8)

SOIL PROBE DATA SUMMARY (JANUARY 1998)

Former Laka Site RI/FS

PARAMETER	FLGP-07 (10 - 11 ft)	FLGP-07 (14 - 16 ft)	FLGP-07 (18 - 20 ft)	FLGP-07 (22 - 24 ft)	FLGP-08 (10 - 11 ft)	FLGP-08 (22 - 24 ft)	EASTERN USA BACKGROUND SOIL CONCENTRATIONS (b)	RECOMMENDED SOIL CLEANUP OBJECTIVE (b)
TAL METALS (n	ng/kg)							
Aluminum	6,400 E R	1,120 E R	1,030 E R	1,440 E R	943 E R	1,780 E R	33,000	SB
Antimony	ND N	ND N	6.9 B N	ND N	ND N	NDN	0.6 - 10 (n)	SB
Vrsenic	14	ND	ND	ND	ND	ND	3.0 + 12.0 as	7.5 or SB
Barium	23 B N	5.9 B N	2.0 B N	2.0 B N	4.5 B N	3.0 B N	15 - 600	300 or SB
3eryllium	0.13 B N	ND N	ND N	ND N	ND N	0.06 B N	0 - 1.75	0.16 or SB
Cadmium	ND N	0.1 - 1.0	1 or SB					
Calcium	752 B E R	849 B E R	222 B E R	239 B E R	196 B E R	212 B E R	130 - 35,000 æ	SB
Chromium	7.4 N R	5.9 N R	ND N R	3.4 N R	ND N R	3.9 N R	1.5 - 40.0 as	10 or SB
Cobalt	2.5 B N	ND N	ND N	ND N	ND N	ND N	2.5 - 60.0 æ	30 or SB
Copper	9.6 N	30 N	3.1 B N	2.0 B N	2.9 B N	4.9 B N	1.0 - 50.0	25 or SB
ron	8,560 E R	8,620 E R	2,010 E R	2,210 E R	1,720 E R	3,590 E R	2,000 + 550,000	2,000 or SB
_ead	22 SA N	4.6 SA N	ND N	0.15 B N	ND N	0.13 B N	4.0 - 61 or 200 - 500*	SB*
Magnesium	671 B E R	180 B E R	110 B E R	171 B E R	186 B E R	201 B E R	100 + 5,000	88
Manganese	123 E N	28 E N	26 E N	15 E N	61 E N	46 E N	50 - 5,000	SB
Mercury	0.26 N	ND N	ND N	0.26 N	0.14 N	0.10 N	0.001 - 0.2	0.1
Vickel	4.6 B N	6.5 B N	ND N	ND N	1.6 B N	1.7 B N	0.5 - 25	13 or 8B
otassium	279 B	ND	ND	ND	196 B	ND	6,500 - 43,000 es	S8
Selenium	ND	ND	ND	ND	ND	ND	0.1 - 3.9	2 or S8
Silver	3.1 N	3.5 N	ND N	ND N	ND N	1.7 B N	0.1 - 5.0 (n)	SB
Sodium	116 B	142 B	91 B	65 B	79 B	107 B	6,000 - 8,000	S8
Thallium	ND	ND	ND	ND	ND	ND	9.1 ÷ 0.8 (q)	5B
/anadium	11 B N	10 N	2.1 B N	2.5 B N	1.5 B N	3.2 B N	1.0 - 300	150 or S8
Zinc	23 N R	36 N R	8.1 N R	4.6 N R	10 N R	16 N R	9.0 - 50	20 or SB
Cyanide	ND	0.03 B	0.61	ND	0.15 B	ND	N/A	20 G GD ***

E - Value estimated due to interference.
N - Spiked sample recovery is not within control limits.
R - Duplicate analysis not within control limits.
N/A - Not available.
ND - Not detected at analytical detection limit.
SA - Value determined by the method of standard addition.
SB - Site background.

BOLD - VALUE EXCEEDS RECOMMENDED SOIL CLEANUP OBJECTIVES.
- Background levels for lead range from 4 to 61 ppm in undeveloped, rural areas to 200 to 500 ppm in metropolitan or suburban areas or

rural areas to 200 to 500 ppm in metropolitan or suburban areas or near highways.

- Some forms of cyanide are complex and stable, while other forms are pH dependent and hence are very unstable. Site-specific form(s) or cyanide should be taken int consideration when establishing soil cleanup objectives.

- New York State background concentration.

- NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94.

- Dragun, J., The Soil Chemistry of Hazardous Materials.

- Bowan, H.J., Environmental Chemistry of the Elements.

- Value is less than the contract-rc quired detection limit but greater than the instrument detection limit.

TABLE 5-1 (Page 8 of 8)

SOIL PROBE DATA SUMMARY (JANUARY 1998) Former Laka Site RVFS

PARAMETER	FLGP-10 (17-18 ft)	FLGP-14 (15 - 16 ft)	FLGP-15 (11 - 12 ft)	FLGP:17 (21 - 22 ft)	FLGP-20 (3 -4 ft)	FLGP-25 (3 - 4 ft)	FLFB: 01 (µg/l)	EASTERN USA BACKGROUND SOIL CONCENTRATIONS (b)	RECOMMENDED SOIL CLEANUP OBJECTIVE (b)
TAL METALS (m	a/ka)								
Aluminum Antimony Arsenic Barium	899 E R ND N ND 1.6 B N	7,170 E R ND N ND 33 B E N R	1,320 E R ND N ND 5.3 B E N R	1,410 E R ND N ND 5.8 B E N R	6,060 E R ND N ND 21 B E N R	2,220 E R ND N ND 13 B E N R	ND E R ND N ND ND N	33,000 0.6 - 10 (n) 3.0 - 12.0 æ 15 - 600	SB SB 7.5 or SB 300 or SB
Beryllium Cadmium Calcium	ND N ND N 211 B E R	0.41 B N 1.6 N R 6,900 E R	0.08 B N 0.80 B N R 417 B E R	0.11 B N ND N R 296 B E R	0.37 B N 1.4 N R 43,300 E R	0.13 B N ND N R 323 B E R	ND N ND N 230 B E R	0-1.75 0.1-1.0 130-35,000 m	0.16 or SB 1 or SB SB
Chromium Cobalt	ND N R ND N	16 N 1.5 B N	3.9 N ND N	5.4 N ND N	11 N 3.4 B N	3.3 N ND N	ND N R ND N	1.5 - 40.0 m 2.5 - 60.0 m	10 or \$B 30 or \$B
Copper	1.9 B N	138 E N R	4.5 B E N R	4.2 B E N R	15 E N R	4.3 B E N R	ND N	10-500	25 or \$8
iron	1,770 E R	9,810 E R	2,650 E R	3,450 E R	10,300 E R	3,480 E R	57BER	2,000 - 550,000	2,000 or SB
Lead	ND N	14 SA N	1.8 N	2.4 N	7.4 N	2.5 N	1.5 B N	4.0 - 61 or 200 - 500*	SB*
Magnesium	141 B E R	1,020 B E	329 B E	298 B E	24,200 E	352 B E	45BER	100 - 5,000	SB
Manganese	16 E N	62 E N R	57 E N R	58 E N R	91 E N R	50 E N R	NDEN	50 - 5,000	58
Mercury	0.12 N	0.25 N	ND N	ND N	ND N	ND N	1.0 N	0.001-0.2	0.1
Nickel	ND N	15 N R	ND N R	1.8 B N R	9.1 N R	ND N R	ND N	0.5 - 25	13 or 6B
Potassium	ND	266 B	ND	211 B	644 B	ND	ND	8,500 - 43,000 as	\$8
Selenium	ND	ND	ND	ND	ND	ND	ND (0.1 - 3.9	2 or \$8
Silver	ND N	3.8 N R	ND N R	ND N R	4.6 N R	2.1 B N R	ND N	0.1 - 5.0 (n)	88
Sodium	85 B	198 B R	151 B R	148 B R	224 B R	147 B R	327 B	6,000 + 6,000	SB
Thallium	ND	ND	ND	ND	ND	ND	ND	0.1 - 0.8 (q)	SB
Vanadium	1.6 B N	14 N	2.5 B N	3.2 B N	12 N	5.4 B N	NDN	1.0 - 300	150 or SB
Zinc	3.2 B N R	90 E N R	14 E N R	12 E N R	32 E N R	16 E N R	NDNR	9.0 - 50	20 or SB
Cyanide	0.08 B	ND	0.02 B	0.03 B	ND	ND	ND	N/A	**

BOLD - VALUE EXCEEDS RECOMMENDED SOIL CLEANUP OBJECTIVES.
- Background levels for lead range from 4 to 61 ppm in undeveloped, rural areas to 200 to 500 ppm in metropolitan or suburban areas or

rural areas to 200 to 500 ppm in metropolitan or suburban areas or near highways.

- Some forms of cyanide are complex and stable, while other forms are pH dependent and hence are very unstable. Site-specific form(s) or cyanide should be taken int consideration when establishing soil cleanup objectives.

- New York State background concentration.

- NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94.

- Dragun, J., The Soil Chemistry of Hazardous Materials.

- Bowan, H.J., Environmental Chemistry of the Elements.

- Value is less than the contract-required detection limit but greater than the instrument detection limit.

Value estimated due to interference.
 Spiked sample recovery is not within control limits.
 R - Duplicate analysis not within control limits.
 NA - Not available.
 ND - Not detected at analytical detection limit.
 SA - Value determined by the method of standard addition.

SB - Site background.

TABLE 5-2 (Page 1 of 3)

SLUDGE SAMPLE DATA SUMMARY (JANUARY 1998)

Former Laka Site RI/FS

PARAMETER	FLGP-12	DL FLGP-12	FLGP-13	DL FLGP-13	FIELD BLANK (µg/l)	RECOMMENDED SOIL CLEANUP OBJECTIVES (b)
TCL VOLATILE ORGANICS (mg/kg)						
Methylene chloride	0.078 b j	•	0.13 b j	•	ND	0.1
Acetone	0.52	•	ND ND	•	ND	0.2
Toluene	0.025 j	•	0.026 j	•	ND	1.5
Ethylbenzene	0.63	•	0.63	•	ND	5.5
Xylene (total)	1.2	•	1.7	•	ND	1.2
TCL SEMIVOLATILE ORGANICS (mg/kg)	[DL: 10:1]		[DL: 10:1]		
Naphthalene	1.8	2.4 d j	1.9	2.4 d j	ND	13.0
2-Methylnaphthalene	2.6	ND [*]	3.0	7.3 d j	ND	36.4
Dimethylphthalate	0.19 j	ND	0.15 j	ND [*]	ND	7.1
Acenaphthyleпе	ND	ND	0.13 j	ND	ND	41.0
Acenaphthene	3.4	4.9 d j	5.4	7.6 d j	ND	50.0 ***
Dibenzofuran	2,4	3.1 d j	3.9	5.4 d j	ND	6,2
Fluorene	4.1	7.4 d	6.9	12 d	ND	50.0 ***
Phenanthrene	22 e	30 d	38 e	51 d	ND	50.0***
Anthracene	5.6 e	8.1 d	8.7 e	15 d	ND	50.0 ***
Carbazole	ND	5.0 d j	ND	ND	ND	NS
Di-n-butylphthalate	1.9	2.2 d j	1.6	1.7 d j	ND	8.1

BOLD - VALUE EXCEEDS RECOMMENDED SOIL CLEANUP OBJECTIVES.

- Not analyzed.
- As per TAGM #4046, Total VOCs < 10 ppm, Total Semi VOCs
 < 500 ppm, and Individual Semi VOCs < 50 ppm.
- (b) NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94.
- b Found in associated blanks.

- d Concentration recovered from diluted sample.
- e Estimated concentration; exceeds GC/MS calibration range.
- j Estimated concentration; compound present below quantitation limit.
- DL Diluted sample analysis.
- ND Not detected at analytical detection limit.

TABLE 5-2 (Page 2 of 3)

SLUDGE SAMPLE DATA SUMMARY (JANUARY 1998) Former Laka Site RVFS

		DL		DL	FIELD BLANK	RECOMMENDE SOIL CLEANUP
PARAMETER	FLGP-12	FLGP-12	FLGP-13	FLGP-13	(hg/l)	OBJECTIVES (I
TCL SEMIVOLATILE						
ORGANICS (mg/kg) (continued)		[DL: 10:1]		[DL: 10:1]		
Fluoranthene	13 e	27 d	23 е	50 d	ND	50.0 ***
Pyrene	25 e	34 d	42 e	54 d	ND	50.0 ***
Butylbenzylphthalate	16 e	22 d	14 e	18 d	ND	50.0 ***
Benzo(a)anthracene	11 e	13 d	20 e	25 d	ND	0.224 or MD
Chrysene	9.9 e	15 d	17 e	27 d	ND	0.4
bis(2-Ethylhexyl)phthalate	18 e	25 d	20 e	26 d	ND	50.0 ***
Di-n-octylphthalate	1.7	5.3 d j	1.8	5.6 d j	ND	50.0 ***
Benzo(b)fluoranthene	8.3 e	20 d	14 e	41 d	ND	1.1
Benzo(k)fluoranthene	5.8 e	14 d	13 e	24 d	ND	1.1
Benzo(a)pyrene	7.3 e	15 d	14 e	28 d	ND	0.061 or MC
Indeno(1,2,3-c,d)pyrene	9.7 e	6.4 d	16 e	10 d	ND	3.2
Dibenzo(a,h)anthracene	5.2 e	3.6 d j	9.1 e	6.2 d j	ND	0.014 or ME
Benzo(g,h,i)perylene	7.8 e	3.7 d j	12 e	5.6 d j	ND	50.0 ***

BOLD - VALUE EXCEEDS RECOMMENDED SOIL CLEANUP OBJECTIVES.

MDL - Method detection limit.

⁻ As per TAGM #4046, Total VOCs < 10 ppm, Total Semi - VOCs

< 500 ppm, and Individual Semi - VOCs < 50 ppm.

NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94. (b)

⁻ Concentration recovered from diluted sample.

⁻ Estimated concentration; exceeds GC/MS calibration range.

⁻ Estimated concentration; compound present below quantitation limit.

⁻ Diluted sample analysis.
- Not detected at analytical detection limit.

TABLE 5-2 (Page 3 of 3)

SLUDGE SAMPLE DATA SUMMARY (JANUARY 1998)

Former Laka Site RI/FS

			FIELD BLANK	SEDIMENT CRITERIA
PARAMETER	FLGP- 12	FLGP-13	(µg/I)	LEL-SEL
TAL METALS (mg/kg)				
Aluminum	4,620 E R	3,280 E R	NDER	NC
Antimony	ND N	ND N	ND N	2.0 - 25
Arsenic	7.2	4.2	ND	6.0 - 33
Barium	414 E N R	316 E N R	NDENR	NC
Beryllium	0.22 B N	0.13 B N	ND N	NC
Cadmium	10 N R	9.6 N R	NDNR	0.6 - 9.0
Calcium	12,900 E R	8,650 E R	322 B E R	NC
Chromium	68 N	55 N	ND N	26 - 110
Cobalt	5.4 B N	5.2 B N	ND N	NC
Copper	335 E N R	232 E N R	NDENR	16 - 110
Iron	12,300 E R	9,060 E R	238 E R	20,000 - 40,00
Lead	1,520 N	1,120 N	1.0 B W N	31-110
Magnesium	6,500 E	4,100 E	31 B E	NC
Manganese	91 E N R	66 E N R	NDENR	460 - 1,100
Mercury	0.20 N	0.050 N	ND N	0.15 - 1.3
Nickel	46 N R	35 N R	ND N R	16 - 50
Potassium	362 B	281 B	ND	NC
Selenium	ND	ND	ND	NC
Silver	7.1 N R	5.8 N R	ND N R	1.0 - 2.2
Sodium	211 B R	211 B R	288 B R	NC
Thallium	ND	ND	ND	NC
Vanadium	34 N	27 N	ND N	NC
Zinc	747 E N R	815 E N R	9.2 B E N R	120 - 270
Cyanide	0.41 B	0.12 B	ND	NC

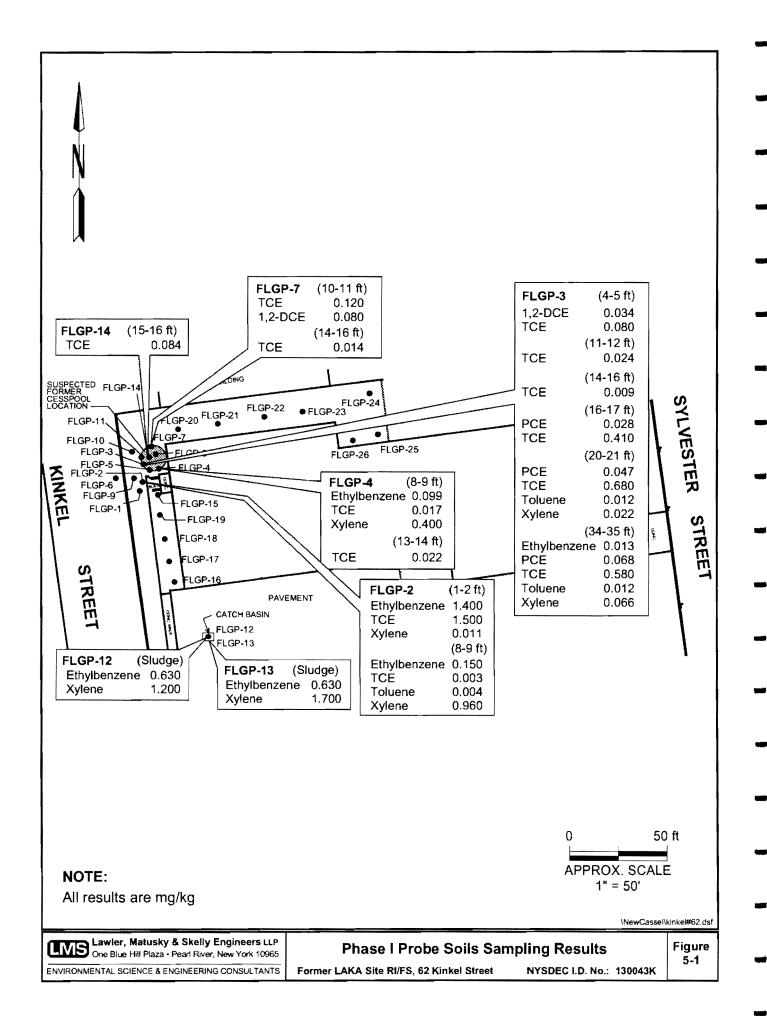
BOLD - VALUE EXCEEDS SEDIMENT CRITERIA LEL-SEL.

- NYSDEC Technical Guidance for Screening Contaminated Sediments, November 1993.

NC - No criteria.

ND - Not detected at analytical detection limit.

- LEL: Lowest Effect Level. SEL: Severe Effect Level.
- Value is less than the contract-required detection limit but greater than the instrument detection limit.
- Value estimated due to interference.
- Spiked sample recovery is not within control limits.
- Duplicate analysis not within control limits.
- Post-digestion spike out of control limits; sample absorbance is less than 50% of spike absorbance.



A total of 40 VOC and 4 TAL metals/CN samples were collected from the twelve borings, completed 8 January to 12 January 1998, along the edge of the building's north and west faces (Figure 5-1). Eleven of these borings were completed to 24 ft depth bgs with one, FLGP-15, advanced to refusal at 42-ft bgs in attempt to sample groundwater. From the VOC samples submitted for analysis all results came back non-detect or varying amounts of TICs were detected. No identifiable VOCs were detected.

Two sludge samples were submitted to Accredited Labs from borings done through the drainage grate into the catch basin at 54 Kinkel Street (Figure 5-1). Due to the fluid nature of the sludge encountered here it was difficult to recover sample material from more than 2 ft below top of the sludge layer. The FLGP-12 sample was collected between 2 to 4 ft below the top of the sludge (approximately 12 to 14 ft bgs) and was analyzed for VOCs, SVOCs and TAL metals/CN. Results of the analysis for VOCs indicate that ethylbenzene (0.63 mg/kg) and xylene (1.2 mg/kg) along with TICs are present in the sludge. The sample collected from FLGP-13, on the opposite side of the drain at approximately the same depth as FLGP-12, indicate similar levels of contamination with ethylbenzene (0.63 mg/kg) and xylene (1.7 mg/kg) as well as TICs.

Sludge SVOC Sampling. Analysis of the FLGP-12 and 13 samples indicated the presence of several semi-volatile organic compounds in estimated concentrations exceeding the NYSDEC recommended soil cleanup objectives (Table 5-2). Benzo(a)anthracene was detected in both sludge samples at concentrations of 11 and 20 mg/kg, respectively. Chrysene was found in both FLGP-12 and 13 at concentrations of 9.9 and 17 mg/kg, respectively. Sludge samples FLGP-12 and 13 both contained benzo(b)fluoranthene (8.3 and 14 mg/kg, respectively) and benzo(k)fluoranthene (5.8 and 13 mg/kg, respectively) in levels exceeding NYSDEC standards. Benzo(a)pyrene was also found in both samples at concentrations of 7.3 and 14 mg/kg, respectively. Two other substances detected in levels exceeding the NYSDEC cleanup standards were indeno(1,2,3-c,d)pyrene at concentrations of 9.7 and 16 mg/kg, respectively and dibenzo(a,h)anthracene (5.2 and 9.1 mg/kg, respectively).

Metals Sampling. Fourteen samples were taken for TAL Metal and CN analysis from the probes completed in the source area. Six additional samples were analyzed for TAL Metals and CN from the twelve probe locations along the perimeter of the DOAK building and the two sludge samples collected from the catch basin in the parking lot at 54 Kinkel Street. Tables 5-1 and 5-2 summarize the analytical results for TAL Metals and CN from both probe soil and sludge samples.

Samples collected from FLGP-02 at a depth of 8 to 9 ft bgs showed levels of calcium (49,300 mg/kg) and magnesium (29,000 mg/kg) that exceed the NYSDEC soil cleanup objective levels

A sample collected at a depth of 18 to 19 ft bgs from FLGP-03 exhibited levels of nickel (97 mg/kg) that are above the 25 mg/kg standard established by NYSDEC.

Slightly elevated levels of mercury were detected in soil samples collected from probes FLGP-05 (9 to 10 ft bgs) and FLGP-06 (10 to 11 ft bgs). Concentrations of mercury were 0.31 and 0.28 mg/kg, respectively with the NYSDEC standard at 0.1 mg/kg and a maximum background concentration of 0.2 mg/kg.

Probe sample FLGP-07, collected at a depth of 10 to 11 ft bgs, showed concentrations of arsenic (14 mg/kg) that exceeded the maximum background concentration of 12.0 mg/kg used by the NYSDEC as the soil cleanup objective concentration.

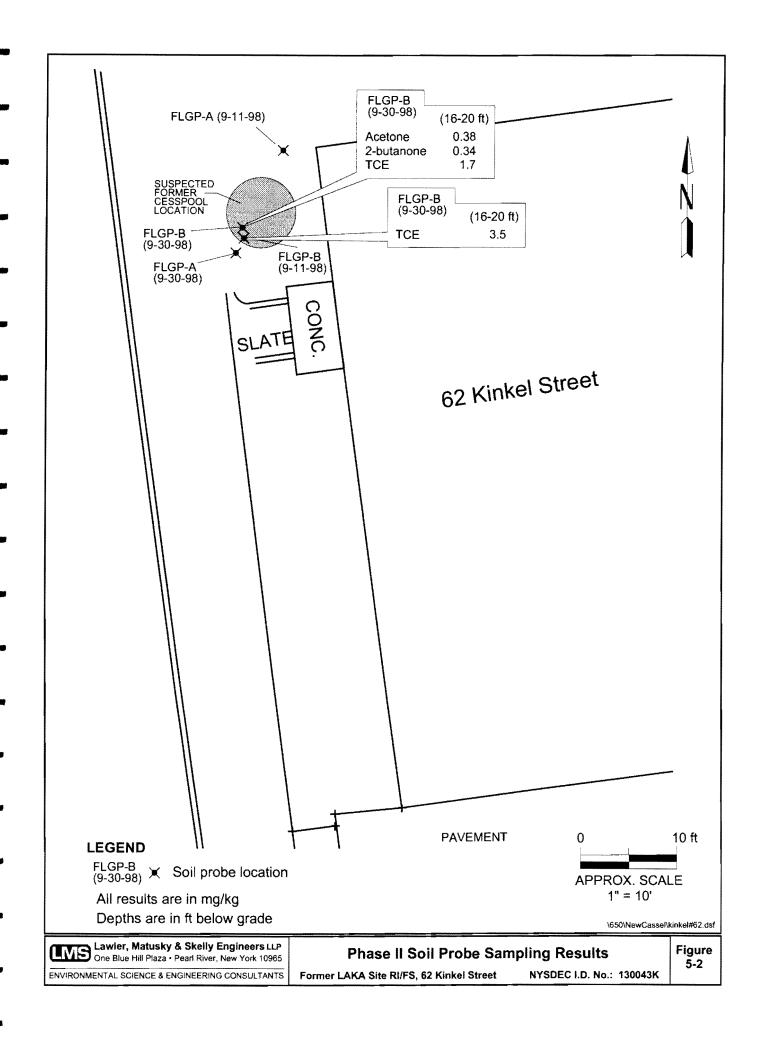
The soil sample collected from FLGP-14 at a depth of 15 to 16 ft bgs showed concentrations of three analytes, including cadmium (1.6 mg/kg), copper (138 mg/kg), and zinc (90 mg/kg) that exceed the soil cleanup objectives set by the NYSDEC.

Concentrations of cadmium (1.4 mg/kg), calcium (43,300 mg/kg), and magnesium (24,200 mg/kg) detected in FLGP-20 at a depth of 3 to 4 ft bgs are above the soil cleanup objective levels set by the NYSDEC.

TAL Metals detected in sludge samples collected from FLGP-12 and FLGP-13 at levels exceeding the NYSDEC sediment criteria standards include cadmium (10 and 9.6 mg/kg, respectively), lead (1,520 and 1,120 mg/kg, respectively), silver (7.1 and 5.8 mg/kg, respectively), copper (335 and 232 mg/kg, respectively), and zinc (747 and 815 mg/kg, respectively).

5.2.1.2 Phase II Soil and Groundwater Probes.

VOC sampling. Five additional probes were completed in Phase II. Four of the additional points were completed for soil samples in the sludge zone at the source area and the other probe was completed to sample groundwater at three intervals below the source area. Although four additional soil probes were completed samples were submitted for analysis from only two of the probes, FLGP-B(9-11-98) and FLGP-B(9-30-98). Materials collected from FLGP-A(9-11-98) and FLGP-A(9-30-98) exhibited very low PID readings and were not submitted for analysis. Figure 5-2 shows a plan view of the soil probe sample locations and results of the subsequent analysis. A total of three water samples were also submitted for analysis from the groundwater probe completed in Phase II. The location and analytical results for these water samples are presented in Figure 5-3. Tables 5-3 and 5-4 contain the analytical results for the soil and water samples, respectively. Field sampling logs for the soil samples are found in Appendix A.



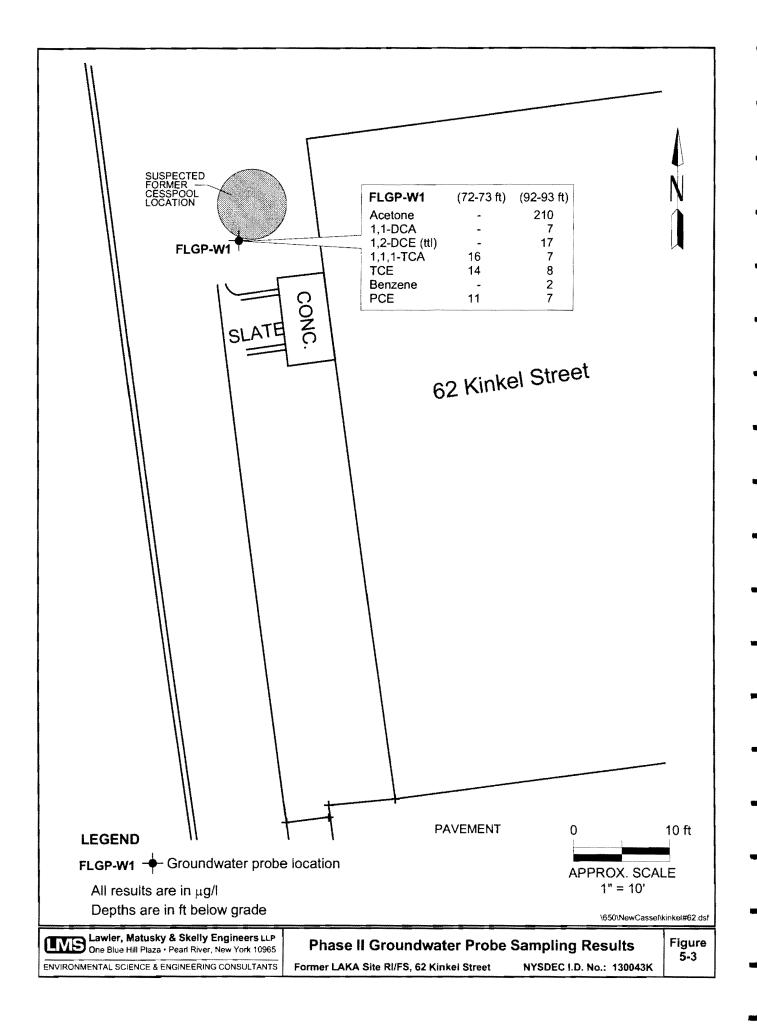


TABLE 5-3

SOIL PROBE DATA SUMMARY (SEPTEMBER 1998)

Former Laka Site

PARAMETER	FLGP-B (16-20 ft) 9/11/98	FLGP-B (16-20 ft) 9/30/98	
VOLATILE ORGANICS (mg/kg)			
Acetone	0.022 g	0.38	0.2
1,2-Dichloroethylene (total)	ND g	0.030 j	N/A
2-Butanone	NDg	0.34	0.3
Trichloroethylene	3.5 d g	1.7	0.7
Tetrachloroethylene	0.025 g	0.081 j	1.4
Toluene	0.003 j g	0.030 j	1.5
Ethylbenzene	0.001 j g	ND [*]	5.5
cis-1,2-Dichloroethene	0.1 g	ND	N/A

BOLD - VALUE EXCEEDS RECOMMENDED SOIL CLEANUP OBJECTIVES.

- NYSDEC Division Technical and Administrative Guidance Memorandum (TAGM), 1/94.
- Concentration recovered from 1:20 diluted sample.
- Estimated concentration; exceeds GC/MS calibration range.
 Value estimated based upon validators report (Appendix F)
- Estimated concentration; compound present below quantitation limit.
- N/A Not available.
- ND Not detected at analytical detection limit.

TABLE 5-4

GROUNDWATER PROBE DATA SUMMARY (SEPTEMBER 1998) Former Laka Site

PARAMETER	FLGP-W1 (62-63 ft)	FLGP-W1 (72-73 ft)	FLGP-W1 (92-93 ft)	NYSDEC CLASS GA STANDARDS (a)
VOLATILE ORGANICS (μg/l)				
Acetone	ND g	ND g	210 d g	50
1,1-Dichloroethylene	2 j g	10 j g	2 j g	5
1,1-Dichloroethane	2 j g	4 j g	7 j g	5
1,2-Dichloroethylene (total)	2 j g	3 j g	17 g	5
2-Butanone	7 j g	8 j g	ND g	NA
1,1,1-Trichloroethane	5 j g	16 g	7 j g	5
Trichloroethylene	4 j g	14 g	8 j g	5
Benzene	ND g	ND g	2 j g	1
Tetrachloroethylene	2 j g	11 g	7 j g	5
Toluene	ND g	ND g	2 j g	5

BOLD - VALUE EXCEEDS NYSDEC CLASS GA STANDARDS.

- (a) NYSDEC Division Technical and Operational Series (1.1.1), Ambient Work Quality Standards and Guidance Values, June 1998.
 - Concentration recovered from 1:5 diluted sample.
- Estimated concentration; exceeds GC/MS calibration range.
- Value estimated, possibly biased low, based upon validators report (Appendix F)
- Estimated concentration; compound present below quantitation limit.
- DL Diluted sample analysis.
- ND Not detected at analytical detection limit.

Probe FLGP-B was completed to a depth of 24 ft bgs on 11 September 1998. One sample of the material recovered from the probe at a depth of 16-20 feet was submitted for VOC analysis, Figure 5-2 is a plan view of the sample locations. This sample exceeded the specified holding temperature for VOC compounds since it was not received promptly at the analytical laboratory. One compound, TCE (3.5 mg/kg), was found to exceed soil cleanup objective levels. Other compounds detected in the analysis of this sample included acetone (0.022 mg/kg), PCE (0.025 mg/kg), toluene (0.003 mg/kg), ethylbenzene (0.001 mg/kg), and cis-1,2-DCE (0.100 mg/kg). Methylene chloride was also detected in the sample at a concentration of 0.016 mg/kg but was found in associated blanks as well and is believed to be due to laboratory contamination.

A second probe, designated FLGP-B, was completed to a depth of 28 ft bgs on 30 September 1998 to collect a sample to replace the one that was collected 11 September 1998. This probe was located very close to the original sample location and the sludge zone beneath the source area was again encountered in the 16-20 feet bgs interval. Resampling of this interval revealed three compounds in concentrations exceeding soil cleanup objectives, acetone (0.38 mg/kg), 2-butanone (0.34 mg/kg), and TCE (1.7 mg/kg). 1,2-DCE (total) (0.03 mg/kg), PCE (0.081 mg/kg), and toluene (0.03 mg/kg) were also detected in the sample. Again, methylene chloride (0.093 mg/kg) was detected in the sample as well as associated blanks and is believed to result from laboratory contamination.

Probe FLGP-W1 was completed on 18 September 1998 and groundwater samples from three discrete intervals were collected. Again, due to a problem at the analytical laboratory, these samples did not remain at the proper holding temperature before analysis.

Groundwater from the shallowest sampling interval (62-63 feet bgs) did not contain any compounds in concentrations that exceed NYSDEC Class GA Standards. However, several compounds, including acetone (48 μ g/l), 1,1-DCE (2 μ g/l), 1,1-DCA (2 μ g/l), 1,2-DCE (total)(2 μ g/l), 2-butanone (7 μ g/l), 1,1,1-TCA (5 μ g/l), TCE (4 μ g/l), and PCE (2 μ g/l), were detected in the sample. Methylene chloride (4 μ g/l) was again detected in both the sample and associated blanks and is believed to be a result of laboratory contamination.

Concentrations of four compounds detected in the intermediate depth (72-73 feet bgs) groundwater samples exceed the NYSDEC Class GA Standards. These compounds include 1,1-DCE (10 μ g/l), 1,1-TCA (16 μ g/l), TCE (14 μ g/l), and PCE (11 μ g/l). In addition, acetone (49 μ g/l), 1,1-DCA (4 μ g/l), 1,2-DCE (total)(3 μ g/l), and 2-butanone (8 μ g/l) were detected at levels that did not exceed the standards. Methylene chloride was again detected in the sample (4 μ g/l) and associated blanks.

At the deepest sampled interval (92-93 feet bgs), acetone (210 μ g/l), 1,1-DCA (7 μ g/l), 1,2-DCE (total)(17 μ g/l), 1,1,1-TCA (7 μ g/l), TCE (8 μ g/l), benzene (2 μ g/l), and PCE (7 μ g/l) levels exceed NYSDEC Class GA Standards for groundwater. 1,1-DCE (2 μ g/l) and toluene (2 μ g/l) were also present in the sample at levels that did not exceed the groundwater standards. Methylene chloride was again present in both the sample (4 μ g/l) and associated blanks.

5.2.2 Groundwater Sampling Data

Groundwater samples were collected from thirteen wells surrounding the former LAKA site including the seven newly installed wells and six that existed prior to this investigation. Each well was sampled for TCL VOCs, TAL Metals and CN. Analytical data summary sheets for all groundwater samples can be found in Appendix G.

5.2.2.1 *VOC Sampling.* A summary of the groundwater sampling results for VOCs are presented in Table 5-5. Monitoring well FLMW-206A, located in the parking lot at 54 Kinkel Street, is downgradient of the former LAKA site and was sampled on 9 February 1998. The VOCs 1,2-DCE (total) (110 μ g/l), 1,1-DCA (12 μ g/l), TCE (45 μ g/l) and 1,1,1-TCA (38 μ g/l) were detected in the sample. In addition, 1,1-DCE and PCE were detected at estimated levels less than 10 μ g/l.

DOAK MW-3, off the southwest corner of the building at 62 Kinkel Street, was also sampled on 9 February 1998. 1,2-DCE (total) (94 μ g/l), 1,1-DCA (25 μ g/l), TCE (29 μ g/l), 1,1,1-TCA (39 μ g/l) and PCE (10 μ g/l) were found in groundwater collected from DOAK MW-3. In addition 1,1-DCE levels were estimated at 1 μ g/l.

MW-201 is located upgradient of the former LAKA site on Main Street between Kinkel and Sylvester Streets. Sampling of this well was conducted on 10 February 1998 and revealed only relatively low levels of VOC contamination. PCE, TCE and 1,1,1-TCA were detected at estimated concentrations of 9, 2 and 3 µg/l, respectively.

Sampling of FLMW-205A also occurred on 10 February 1998. This new shallow well is located across Kinkel Street, southwest of the former LAKA site. The VOCs 1,2-DCE (total)(98 μ g/l), TCE (36 μ g/l) and toluene (10 μ g/l) were detected in groundwater samples collected from this well. 1,1,1-TCA, PCE and total xylenes were also detected at estimated concentrations of 7, 3 and 4 μ g/l, respectively.

On 11 February 1998, the new deep well FLMW-206B was sampled. This well is also located on the south side of the building at 62 Kinkel Street, downgradient of the former LAKA site, in the

GROUNDWATER DATA SUMMARY (FEBRUARY 1998) Former Laka Site

PARAMETER	FLMW-202B	FLMW-204A	FLMW-204B	FLMW-205A	FLMW-205B	FLMW-205D	FLMW-206A	FLMW-206B	DOAKMW-1	NYSDEC CLASS GA STANDARDS (a)
VOLATILE ORGANICS (µg/	1)						**************************************			
1,1-Dichloroethene	, ND	ND	1 j	ND	21	ND	2 j	18	8 j	5
I.1-Dichloroethane	ND	ND	NĎ	ND	13	ND	12	28	6 i	5
,2-Dichloroethylene (total)	2 j	ND	6 j	98	32	120	110	23	7 j	5
Chloroform	NĎ	ND	NĎ	ND	3 j	ND	ND	1 j	NĎ	7
,2-Dichloroethane	ND	ND	ND	ND	NĎ	ND	ND	NĎ	ND	5
1,1-Trichloroethane	3 j	5 j	5 j	7 j	65	8 j	38	49	53	5
Frichloroethylene	19	7 j	35	36	99	42	45	34	6 j	5
Tetrachloroethylene	38	14	33	3 j	110	3 j	8 j	47	56	5
Foluene	2 j	2 j	ND	10	6 j	NĎ	NĎ	2 j	8 j	5
Xylene (total)	NĎ	NĎ	ND	4 j	NĎ	ND	ND	NĎ	2 j	5

BOLD - VALUE EXCEEDS NYSDEC CLASS GA STANDARDS.

⁽a) - NYSDEC Division Technical and Operational Guidance Series (1.1.1), Ambient Work Quality Standards and Guidance Values, October 1993.

⁻ Found in associated blanks.

⁻ Estimated concentration; compound present below quantitation limit.

ND - Not detected at analytical detection limit.

TABLE 5-5 (Page 2 of 2)

GROUNDWATER DATA SUMMARY (FEBRUARY 1998) Former Laka Site

11/24/98

					i and c		*				NYSDEC
PARAMETER	DOAKMW-2	DOAKMW-3	MW-201	-201 MW-202	MW-202 MW-203 I	FB-1 FB	FB-2	B-2 TB1/2	TB3/4 TB	TB5/6	CLASS GA STANDARDS (a)
/OLATILE ORGANICS (µg/l											
1,1-Dichloroethene	4 j	1 j	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	8 j	25	ND	55	8 j	ND	ND	ND	ND	ND	5
1,2-Dichloroethylene (total)	1 j	94	ND	8 j	66	ND	ND	ND	ND	ND	5
Chloroform	NĎ	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	43	39	3 j	49	21	ND	ND	ND	ND	ND	5
Trichloroethylene	4 j	29	2 j	4 j	14	ND	ND	ND	ND	ND	5
Tetrachloroethylene	15	10	9 j	14	11	ND	ND	ND	ND	ND	5
Toluene	2 j	ND	NĎ	ND	12	ND	ND	ND	ND	ND	5
Xylene (total)	NÓ	ND	ND	ND	ND	ND	ND	ND	ND	ND	5

BOLD - VALUE EXCEEDS NYSDEC CLASS GA STANDARDS.

⁽a) - NYSDEC Division Technical and Operational Guidance Series (1.1.1), Ambient Work Quality Standards and Guidance Values, October 1993.

b - Found in associated blanks.

⁻ Estimated concentration; compound present below quantitation limit.

ND - Not detected at analytical detection limit.

parking lot at 54 Kinkel Street. Sampling of this well revealed the presence of a wide variety of VOCs in the groundwater. 1,1-DCE (18 μ g/l), 1,1-DCA (28 μ g/l), 1,2-DCE (total)(23 μ g/l) were present in the sample as were 1,1,1-TCA (49 μ g/l), TCE (34 μ g/l) and PCE (47 μ g/l). Concentrations of several other compounds were estimated including chloroform (1 μ g/l) and toluene (2 μ g/l).

FLMW-202B was sampled on 11 February 1998. Located in the alley north of the 62 Kinkel Street, FLMW-202B is considered an upgradient well and is the deepest of the wells sampled during this investigation (approximately 120-ft bgs). Two VOCs were detected at concentrations above 5 μ g/l, TCE (19 μ g/l) and PCE (38 μ g/l). Three other VOCs were found at concentrations estimated to be less than 5 μ g/l, 1,2-DCE (total)(2 μ g/l), 1,1,1-TCA (3 μ g/l) and toluene (2 μ g/l).

The shallow counterpart to FLMW-202B, MW-202, was also sampled on 11 February 1998. This well was installed in 1996 and is also located upgradient of the former LAKA site in the alley north of 62 Kinkel Street. VOCs detected in groundwater samples from MW-202 include 1,1-DCA (55 μ g/l), 1,1,1-TCA (49 μ g/l) and PCE (14 μ g/l). Concentrations of 8 and 4 μ g/l were estimated for two other analytes, total 1,2-DCE and TCE, respectively.

The final well sampled on 11 February 1998 was FLMW-204B, upgradient of the former LAKA site in the alley west of 71 Sylvester Street. Analysis of groundwater samples collected from this well revealed the presence of TCE (35 μ g/l) and PCE (33 μ g/l). Additional contaminants included 1,1-DCE, total 1,2-DCE and 1,1,1-TCA at estimated concentrations of 1, 6 and 5 μ g/l, respectively.

The existing monitoring well DOAK MW-2 was first to be sampled on the final day of sampling, 12 February 1998. This well is located cross-gradient to the known source area, in the employee parking lot at 67 Sylvester Street. Analysis of samples taken from this well indicated the presence of PCE (15 μ g/l) and 1,1,1-TCA (43 μ g/l). Several other compounds, including 1,1-DCE (4 μ g/l), 1,1-DCA (8 μ g/l), 1,2-DCE (total)(1 μ g/l), TCE (4 μ g/l) and toluene (2 μ g/l) were detected at low estimated concentrations.

DOAK MW-1, near the east entrance to the building at 67 Sylvester Street, was also sampled on 12 February 1998. This well is another relatively shallow well (approximately 65-ft bgs) that is cross-gradient from the known source area at the northwest corner of the building. Sampling results from this well were similar to those from DOAK MW-2 with higher levels of PCE (56 μ g/l) and 1,1,1-TCA (53 μ g/l) detected. As was the case in samples taken from DOAK MW-2, 1,1-DCE (8 μ g/l), 1,1-DCA (6 μ g/l), 1,2-DCE (total)(7 μ g/l), TCE (6 μ g/l) and toluene (8 μ g/l) were detected at relatively low estimated concentrations.

The upgradient shallow well, FLMW-204A, was the third well to be sampled on 12 February 1998. This well is also located in the alley west of 71 Sylvester Street. Groundwater samples collected here indicated the presence of PCE (14 μ g/l) and very low estimated concentrations of 1,1,1-TCA (5 μ g/l), TCE (7 μ g/l) and toluene (2 μ g/l).

FLMW-205B, a deep well located across Kinkel Street from the parking lot at 54 Kinkel Street was next to be sampled on 12 February 1998. FLMW-205B is nearly directly downgradient from the known source area on the former LAKA site. Several VOCs were found in samples collected from this well, including 1,1-DCE (21 μ g/l), 1,1-DCA (13 μ g/l), 1,2-DCE (total)(32 μ g/l), 1,1,1-TCA (65 μ g/l), TCE (99 μ g/l) and PCE (110 μ g/l). Chloroform (3 μ g/l) and toluene (6 μ g/l) were also detected at low estimated concentrations.

The final well sampled was MW-203, located in the parking lot at 65 Kinkel Street (across the street from the west entrance to the building at 62 Kinkel Street). MW-203 is cross-gradient from the known source area at the former LAKA site. However, due to the proximity of MW-203 to the known source area, it is possible that dispersion of any contaminant plume originating at the source area impacted the groundwater in this well. VOCs detected in samples from MW-203 include 1,2-DCE (total)(66 μ g/l), 1,1,1-TCA (21 μ g/l), TCE (14 μ g/l), PCE (11 μ g/l) and toluene (12 μ g/l). 1,1-DCA was also detected at an estimated concentration of 8 μ g/l.

5.2.2.2 *Metals Sampling*. All of the above wells were also sampled for TAL Metals and CN. Analysis for a total of 23 metals and cyanide were done for these samples. Table 5-6 shows a summary of the sampling results for these analytes in groundwater collected from the thirteen sampled wells.

Aluminum concentrations in eight wells were found to exceed the maximum natural ambient groundwater level of 1,000 μ g/l. FLMW-204A,-205A, and -206A exhibited concentrations of 16,700 μ g/l, 54,600 μ g/l, and 9,070 μ g/l, respectively. MW-201, -202, and -203 had concentrations of 5,490 μ g/l, 5,010 μ g/l, and 30,800 μ g/l, respectively. DOAK MW-2 and DOAK MW-3 also had elevated aluminum concentrations of 1,210 μ g/l and 1,600 μ g/l, respectively.

Similarly, sodium concentrations were higher than NYSDEC standards for water collected from eight wells. The sodium concentration in DOAK MW-1 was 50,600 μ g/l. Concentrations of sodium in MW-201 and MW-203 were 29,800 μ g/l and 28,400 μ g/l, respectively. From the newly installed wells, FLMW-202B, -204B, -205A, -205B, and -206B all showed sodium levels exceeding the standard. Concentrations of sodium in water from these wells were 33,900 μ g/l, 23,900 μ g/l, 26,100 μ g/l, 24,900 μ g/l, and 23,700 μ g/l, respectively. Groundwater from all wells

TABLE 5-6 (Page 1 of 2)

GROUNDWATER DATA SUMMARY (FEBRUARY 1998) Former Laka Site

11/24/98

PARAMETER	FLMW-202B	FLMW-204A	FLMW-204B	FLMW-205A	FLMW-205B	FLMW-205D	FLMW-206A	FLMW-206B	NATURAL AMBIENT GROUNDWATER RANGES (n)	NYSDEC CLASS GA STANDARDS (a)
METALS (µg/l)										
Aluminum	303 E N g	16,700 E N g	214 E N g	54,600 E N g	846 E N g	49,300 E N g	9,070 E N g	492 E N g	<5.0 - 1,000	NS
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	N/A	3.0 GV
Arsenic	ND	ND	ND	18.1	ND	13.6	ND	ND W	<1.0 - 30	25
Barium	54.9 B E g	108 B E g	95.2 B E g	363 E g	99.8 B E g	319 E g	80.0 B E g	101 B E g	10 - 500	1,000
Beryllium	ND	4.7 B	ND	2.5 B	0.48 B	2.3 B	0.39 B	ND	<10	3.0 GV
Cadmium	ND	8.0	ND	9.4	ND	7.1	ND	ND	<1.0	10
Calcium	14,400 E g	14,900 E g	21,800 E g	16,200 E g	14,000 E g	12,600 E g	21800 E	15,300 E	1,000 - 150,000	NS
Chromium	NDr	39.7 r	ND r	85.8 r	15.2 r	80.2 r	21.5 r	ND r	<1.0 - 5.0	50
Cobalt	ND	ND	ND	16.6 B	ND	16.9 B	ND	ND	<10	NS
Copper	14.6 B	52.2	13.0 B	86.6	18.8 B	72.5	22.6 B	14.8 B	<1.0 - 30	200
Iron	997 E g	39,000 E g	393 E g	117,000 E g	1,240 E g	99,300 E g	21,400 E g	1,350 E g	10 - 10,000	300 (m)
Lead	ND	16.2	ND	73.0 S	4.4	73.2 S	11.1	ND	<15	2 5
Magnesium	5,170 E g	3,870 B E g	10,500 E g	9,510 E g	6,180 E g	7,450 E g	6,420 E g	6,190 E g	1,000 - 50,000	35,000 GV
Manganese	11.5 B E g	234 E g	339 E g	666 E g	546 E g	565 E g	116 E g	146 E g	<1.0 - 1,000	300 (m)
Mercury	0.20	0.25	ND	ND	ND	ND	0.23	ND	<1.0	2.0
Nickel	ND	26.0 B	ND	27.0 B	52.6	24.1 B	ND	ND	<10 - 50	NS
Potassium	23,300	2,770 B	4,450 B	6,420	6,040	5,970	3,670 B	3,460 B	1,000 - 10,000	NS
Selenium	ND	ND	ND	ND W	ND	ND W	ND	ND	<1.0 - 10	10
Silver	ND	18.9	ND	49.4	ND	41.1	10.4	ND	<5.0	50
Sodium	33,900 E g	5,710 E g	23,900 E g	26,100 E g	24,900 E g	19,300 E g	6,710 E g	23,700 E g	500 - 120,000	20,000
Thallium	ND W	ND -	ND W	ND	ND W	ND	ND	ND W	N/A	4.0 GV
Vanadium	ND	71.9	ND	259	ND	2 20	47.0 B	ND	<1.0 - 10	NS
Zinc	16.9 B R g	220 R g	45.0 R g	96.2 R g	233 R g	78.8 R g	26.4 R g	42.7 R g	<10 - 2,000	300
Cyanide	5.9 B	4.2 B	4.2 B	4,2 B	3.4 B	3.4 B	3.4 B	5.1 B	N/A	100

BOLD - VALUE EXCEEDS NYSDEC CLASS GA STANDARDS.

- (a) NYSDEC Division Technical and Operational Guidance Series (1.1.1), Ambient Work Quality Standards and Guidance Values, October 1993.
- (m) Iron and manganese not to exceed 500 µg/l.
 (n) Dragun, J., The Soil Chemistry of Hazardous Materials.
- Value is less than the contract-required detection limit but greater than the instrument detection limit.
- Value estimated due to interference.
- Spiked sample recovery is not within control limits.
- R Duplicate analysis not within control limits.
- S Value obtained by the Method of Standard Additions.

- W Post-digestion spike out of control limits; sample absorbance is less than 50% of spike absorbance.
- GV Guidance value.
- N/A Not available.
- ND Not detected at analytical detection limit.
- NS No standard.
- g Value considered estimated based on the data validator's report (Appendix H).
- r Value rejected by data validator but usable to show magnitude of contaminated level (Appendix H).

TABLE 5-6 (Page 2 of 2)

GROUNDWATER DATA SUMMARY (FEBRUARY 1998) Former Laka Site

11/24/98

PARAMETER	DOAKMW-1	DOAKMW-2	DOAKNW-3	MW-201	MW-202	MW-203	FB	NATURAL AMBIENT GROUNDWATER RANGES (n)	NYSDEC CLASS GA STANDARDS (a)
METALS (µg/i)								· · · · · · · · · · · · · · · · · · ·	
Aluminum	625 E N g	1,210 E N g	1,600 E N g	5,490 E N g	5,010 E N g	30,800 E N g	97.1 B E N g	<5.0 - 1,000	NS
Antimony	ND	55.1 B	ND	ND	ND	ND	ND	N/A	3.0 GV
Arsenic	ND	ND	ND	ND	ND	34.1	ND	<1.0 - 30	25
Barium	129 B E g	37.9 B E g	45.2 B E g	122 B E g	62.8 B E g	205 E g	ND E g	10 - 500	1,000
Beryllium	ND	ND	ND	0.51 B	ND	1.5 B	ND	<10	3,0 GV
Cadmium	ND	ND	ND	ND	ND	ND	ND	<1.0	10
Calcium	12,100 E g	4,340 B E g	11,900 E g	17,900 E g	20,400 E g	28,700 E g	132 B E g	1,000 - 150,000	NS
Chromium	ND r	ND r	ND r	14.0 r	ND r	92.0 r	ND r	<1.0 - 5.0	50
Cobalt	ND	ND	ND	ND	ND	10.3 B	ND	<10	NS
Copper	ND	6.1 B	7.4 B	25.8	14.8 B	60.6	ND	<1.0 - 30	200
Iron	718 E g	1,500 E g	3,010 E g	13,000 E g	9,280 E g	66,400 E g	725 E g	10 - 10,000	300 (m)
Lead	ND	ND	ND	12.7	ND	48.6 S	ND	<15	25
Magnesium	4,940 B E g	2,150 B E g	3,310 B E g	9,820 E g	4,370 B E g	9,070 Eg	27.2 B E g	1,000 - 50,000	35,000 GV
Manganese	300 E g	51.0 E g	18.6 E g	298 E g	30.9 E g	2,000 E g	ND E g	<1.0 - 1,000	300 (m)
Mercury	0.25	ND	0.20	ND	0.24	0.29	ND	<1.0	2.0
Nickel	ND	12.6 B	ND	9.8 B	ND	51.4	ND	<10 - 50	NS
Potassium	3,480 B	2,290 B	1,300 B	5,51 0	3,450 B	5,760	1,710 B	1,000 - 10,000	NS
Selenium	ND	ND	ND	ND	ND	ND	ND	<1.0 - 10	10
Silver	ND	ND	ND	ND	ND	27.1	ND	<5.0	50
Sodium	50,600 E g	5,320 E g	4,660 E g	29,800 E g	7,100 E g	28,400 E g	263 B E g	500 - 120,000	20,000
Thallium	ND W	ND	ND	ND	ND	ND W	ND	N/A	4.0 GV
Vanadium	ND	ND	7.1 B	22.0 B	19.5 B	163	ND	<1.0 - 10	NS
Zinc	11.6 R g	219 R g	29.5 R g	64.3 R g	976 R g	57.4 R g	11.6 R g	<10 - 2,000	300
Cyanide	3.4 B	6.8 B	4.2 B	3.4 B	7.6 B	3.4 B	3.4 B	N/A	100

BOLD - VALUE EXCEEDS NYSDEC CLASS GA STANDARDS.

- (a) NYSDEC Division Technical and Operational Guidance Series (1.1.1), Ambient Work Quality Standards and Guidance Values, October 1993.
- (m) Iron and manganese not to exceed 500 μg/l.
- (ii) Dragun, J., The Soil Chemistry of Hazardous Materials.
- B Value is less than the contract-required detection limit but
- greater than the instrument detection limit.
- E Value estimated due to interference.
- N Spiked sample recovery is not within control limits.
- R Duplicate analysis not within control limits.

- S Value obtained by the Method of Standard Additions.
- W Post-digestion spike out of control limits; sample absorbance
- is less than 50% of spike absorbance.
- GV Guidance value.
- N/A Not available.
- ND Not detected at analytical detection limit.
- NS No standard.
- g Value considered estimated based on the data validator's report (Appendix H).
- r Value rejected by data validator but usable to show magnitude of contaminated level (Appendix H).

sampled exceeded the NYSDEC standard for combined iron and manganese concentrations of 500 $\mu g/l$. Beryllium concentrations of 4.7 $\mu g/l$ in groundwater sampled from FLMW-204A were found to exceed the guidance value of 3.0 $\mu g/l$ set by the NYSDEC. Groundwater from DOAK MW-2 indicated concentrations of antimony (55.1 $\mu g/l$) that exceed the NYSDEC guidance value of 3.0 $\mu g/l$.

Groundwater collected from MW-203 exceeds the NYSDEC standard for arsenic, chromium, and lead with concentrations of 34.1 μ g/l, 92.0 μ g/l, and 48.6 μ g/l, respectively. Lead (73.0 μ g/l) and chromium (85.8 μ g/l) levels in FLMW-205A were also found to be above NYSDEC standards. Zinc levels in groundwater from MW-202 were 976 μ g/l, exceeding the NYSDEC standard of 300 μ g/l.

CHAPTER 6

SUMMARY AND CONCLUSIONS

6.1 FIELD INVESTIGATION

The FRI at the former LAKA site was performed to further characterize the nature and extent of the contamination discovered during the previous PSA. The field investigation included the completion of a number of probes, monitoring wells, and the sampling of drainage structures and monitoring wells.

A total of 30 probe locations were sampled and 69 samples were analyzed for VOC's and SVOC's. A majority of these probes were installed in the suspected location of a former leachpool which was found to be contaminated during the PSA. During the probing at the site bottom sludges were collected and analyzed from a drainage structure located at 54 Kinkel Street. In addition, three groundwater samples were collected from a probe point in the suspected former leachpool location.

A total of 7 additional monitoring wells were installed at the site. These included 3 shallow and 4 deep monitoring wells to determine the vertical distribution of the contaminants. The shallow wells were completed near the bottom of the upper glacial aquifer while the deep wells were set into the top of the Magothy Aquifer at approximately 110 ft below the ground surface. After the wells were installed and developed the wells were sampled along with 6 existing wells from previous on-site and off-site investigations. Each of the groundwater samples were analyzed for VOCs and metals.

6.2 DATA INTERPRETATION

The site history for the former LAKA site indicates that the main contaminants of concern are VOCs and SVOCs. The VOCs are primarily halogenated volatile organic compounds used in degreasing while the SVOCs were used as lubricants or cutting oils. It was also believed that metals contamination may be present since the former operations at the site included machining and fabrication of metal parts. All samples collected during the focused RI were analyzed for VOCs, and portions for SVOCs and metals. The following data interpretation includes each of the media sampled including the subsurface soils, drainage structure sediments, and the groundwater.

6.2.1 Subsurface Soils

A total of 69 soil samples were collected from the soil probe locations. The results indicated the presence of acetone above the cleanup objectives at FLGP-02 (1-2 ft) and FLGP-02 (8-9 ft). Xylene was also detected above the soil cleanup objective at FLGP-02 (1-2 ft). FLGP-B (9-30-98), collected during the second phase of soil probing, contained acetone, 2-butanone, and TCE at concentrations above soil cleanup objective levels in the 16-20 feet bgs interval.

Nickel, arsenic and mercury were found above the cleanup objectives in FLGP-03 (18-19 ft) and are believed to be related to site activities. Only nickel was found to exceed both the cleanup objective and eastern background soil concentrations in FLGP-03. Several other metals including iron, mercury, and cadmium were found above the recommended cleanup objectives in the soil probe samples. Iron was found above the cleanup objective in 16 of the samples but the values are within the eastern background soil concentrations and are believed to represent site background levels. Mercury was detected above the recommended soil cleanup objective in 10 samples (including FLGP-02 and FLGP-03). The detected concentrations are slightly elevated above eastern background soil concentrations and are believed to be related to activities at the site. Cadmium was found in excess of the recommended soil cleanup objective in two of the samples, FLGP-14 (15-16 ft) and FLGP-20 (3-4 ft), and are believed to be related to activities at the site.

Based on the observations during the PSA and the RI soil probes it appears the former leachpool which was located off the northwest corner of the building was likely abandoned when the existing building was connected to the county sewer system. Records or information on when the building was connected to the county sewer or how the leachpool was cleaned and abandoned were not found. The sampling results support this in that only limited hot spots of VOC contamination were found in the former pool location. The other soil probes which were installed across the site did not indicate that additional VOC source areas are located in the areas that were sampled. Although several metals were detected in excess of recommended cleanup objectives it is not believed that significant source areas of metals contamination exist on-site which may pose a threat of leaching to the groundwater. The levels of metal contamination are typical of a highly industrialized area.

6.2.2 Drainage Structure

Two bottom sludge samples were collected from the drainage structure at 54 Kinkel Street. In this structure the depth to standing water was approximately 4 ft with a water layer of 8 ft followed by 2 ft of very soft loose sludge. In FLGP-12 xylene was found at the recommended cleanup objective (1.2 ppm). Eight SVOCs were found in excess of the recommended soil cleanup objective including phenanthere, benzo(a)anthracene, chyrsene, benzo(b)flouranthene, benzo(k)flouranthene,

benzo(a)pyrene, indo(1,2,3-c,d)pyrene, and dibenzo(a,h)anthracene. Both sludge samples cóllected from the drainage structure contained elevated levels of cadmium, chromium, lead, mercury, and nickel above the recommended cleanup objectives.

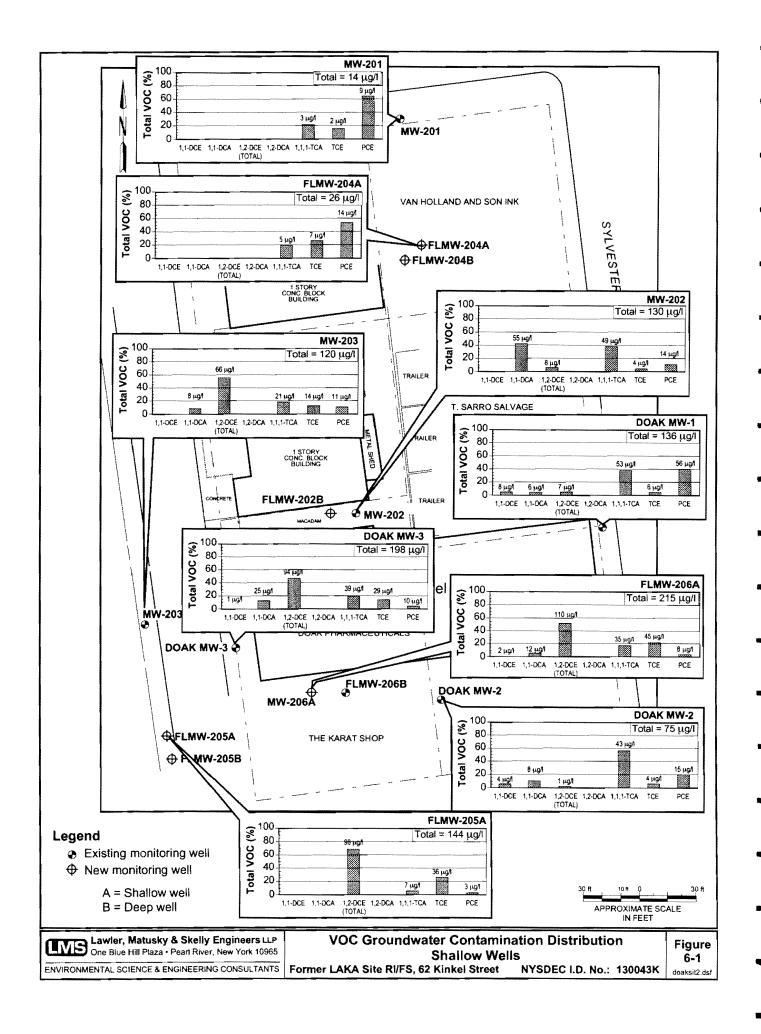
The analytical data indicates that the existing drainage structure located in the parking lot at 54 Kinkel Street contains elevated levels of VOCs and SVOCs which exceed the recommended cleanup objective for these compounds. The drainage structure also contains elevated levels of metals including chromium, cadmium, lead, and mercury above the recommended cleanup objectives. It is not known if the presence of these contaminants are related to activities associated with the former LAKA operation. Based on the location of the drainage structure any runoff from the former LAKA site along the southern side of the building would be directed to this structure. However, the noted contamination may be typical of stormwater runoff in an urban/industrialized area.

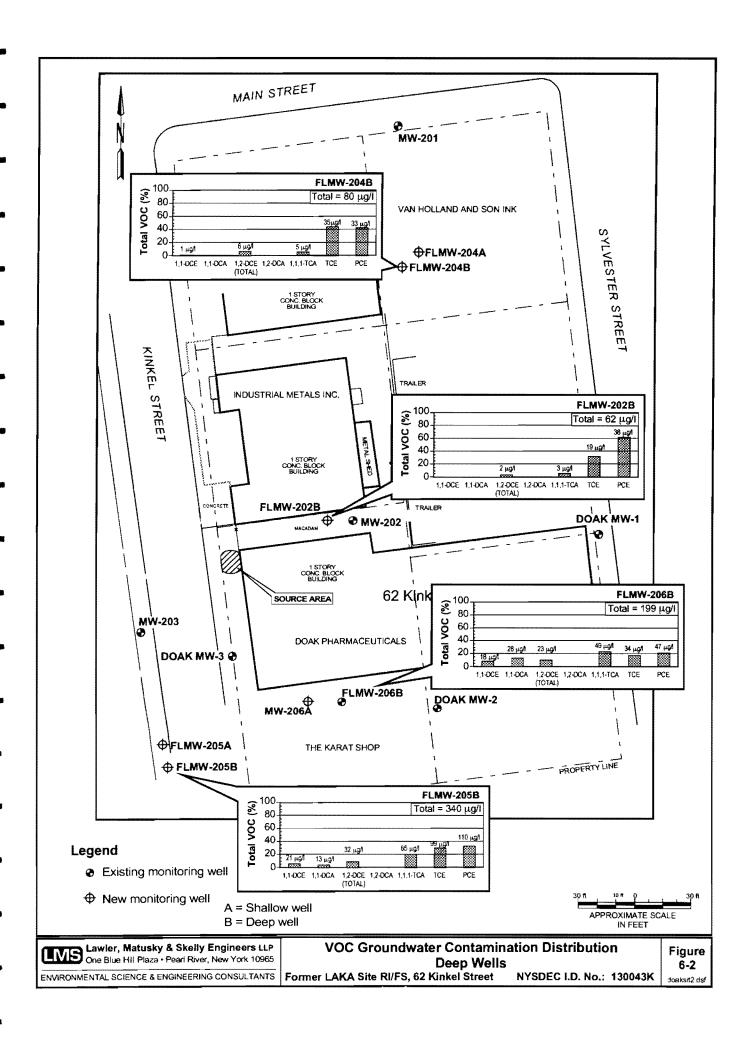
6.2.2 Groundwater

A total of 13 monitoring wells were sampled during the focused RI. The monitoring wells sampled include both shallow and deep monitoring wells. Analytical data from the 13 wells indicate that VOCs in excess of the Class GA standards are found in all of the wells including the upgradient wells. The concentrations are greater in the downgradient wells and in the deeper monitoring wells.

In the two upgradient shallow wells (MW-201 and FLMW-204A) total VOCs were 14 μ g/l and 26 μ g/l respectively; PCE was the primary contaminant present making up over 50 percent of the total VOCs (Figure 6-1). In the deeper upgradient well total VOCs were 80 μ g/l with TCE and PCE the primary contaminants (Figure 6-2). The presence of these compounds in the upgradient wells indicates that an upgradient source of contamination exists north of Main Street. One additional upgradient well (Doak MW-1) also contained significant levels of contamination and is also likely affected by the unknown upgradient source.

The most upgradient on-site wells are MW-202 and FLMW-202B. The deeper wells showed similar concentrations and a similar contaminant distribution as the upgradient well (FLMW-204B) (Figure 6-2). The shallow well was found to contain total VOC concentrations significantly higher than the upgradient wells and a different suite of contaminants including 1,1-DCA and 1,1,1-TCA (Figure 6-1). The increased concentrations at the shallow depth and the different contaminant suite indicates that the LAKA site or the former Tishcon site at 68 Kinkel has contributed to the groundwater contamination in this area. The site history for the LAKA site does not indicate that 1,1,1-TCA was used while Tishcon is a known to use large amounts of that compound.





Six monitoring wells are located immediately downgradient of the Former LAKA site including 4 shallow wells (MW-203, Doak MW-3, FLMW-205A, and FLMW-206A) and two deep wells (FLMW-205B and FLMW-206B). Similar concentrations are found in all of the shallow wells and 1,2-DCE, a breakdown product of PCE, is the primary contaminant of concern (Figure 6-1). In each of the shallow wells total 1,2-DCE accounts for over 40 percent of the total VOCs. The total VOC concentrations in the two deep wells were 340 μg/l (FLMW-205B) and 199 μg/l (FLMW-206B). The highest concentration was detected in FLMW-205B which is in a direct downgradient position of the former leachpool on the northwest corner of the building. The distribution of individual contaminants in these two wells are similar. In both FLMW-205B and FLMW-206B, 1,1,1-TCA, TCE, and PCE account for approximately 60 percent of the VOCs, with similar percentages of the individual contaminants (Figure 6-2).

Groundwater collected from the probe point near the suspected source area exhibited contamination at the three intervals that were sampled. In the shallow interval (62-63 feet bgs), no compounds were detected in concentrations above the NYSDEC Class GA groundwater standards. 1,1-DCE, 1,1,1-TCA, TCE, and PCE were all present in levels above Class GA standards at the intermediate interval (72-73 ft bgs). Groundwater collected from the deepest interval (92-93 ft bgs) contained levels of acetone, 1,1-DCA, 1,2-DCE (total), 1,1,1-TCA, TCE, benzene, and PCE in excess of the standards. However, the results from these groundwater probes are biased low due to problems associated with the analytical laboratory.

Based on the results of the groundwater sampling and analysis, past activities at the former LAKA site have contributed to the known groundwater contamination in this area of the NCIA. The contamination has affected both the upper glacial aquifer and the upper zones of the Magothy Aquifer. The analytical results from the upgradient wells indicates that additional upgradient groundwater contamination has migrated onto the former LAKA site. The exact vertical and horizontal limits of the plume could not be determined due to the presence of upgradient groundwater contamination. The distribution of individual contaminants suggests that both a source of 1,1,1-TCA and TCE/PCE related compounds are present upgradient.

6.3 POTENTIAL EXPOSURE PATHWAYS

The sampling and analysis conducted during the remedial investigation identified limited subsurface soils and drainage structure sediment contamination at concentrations greater than the NYSDEC Soil Cleanup objectives. Since most of the property is paved and is currently used for industrial purposes possible exposure pathways to the contamination are limited. If warranted by a final NYSDEC review of the data a detailed exposure assessment can be conducted to address possible exposure pathways to on-site workers and the public.

Based on the groundwater sampling data the site appears to be contributing to the groundwater contamination in the NCIA. Currently there are no on-site pathways of exposure to the groundwater due to the fact that groundwater is not utilized in any capacity, including as a source of drinking water. Pathways within the NCIA are also not present since there is no documented groundwater use within the industrial area. The potential for exposure pathways downgradient of the NCIA through the groundwater are being addressed by other NYSDEC investigations due to the presence of multiple sources of contamination within the NCIA.

6.4 REMEDIAL ACTION OBJECTIVES

Remedial action objectives are developed for a site to determine the levels to which contaminant concentrations must be reduced to protect human health and environment. The remedial action levels for this site are based on established NYSDEC recommended soil cleanup objectives and NYSEC Class GA groundwater standards for each of the contaminants of concern. The results of exposure assessment if conducted could be used to further refine the remedial action objectives for the soils.

6.5 QUANTITIES OF CONTAMINATED MEDIA

6.5.1 Subsurface Soils and Drainage Structure Sediments

Although detailed exposure assessments were not conducted for the subsurface soils and drainage structure sludges, contaminants in these media are a source of continued groundwater contamination through leaching. Establishment of remedial action objectives for these media are based on the prevention of the continued migration of the contaminants present in the soils to the groundwater. Based on the limited amount of soils found in excess of the cleanup objectives approximately 22 cubic yards of contaminated soils are found near the former leachpool area. In addition to the soils another 4 cubic yards of contaminated sludges are found in the drainage structure located at 54 Kinkel Street. The quantity of contaminated subsurface soils and drainage structure sludges maybe revised based on the results of the exposure assessment.

6.5.2 Groundwater

The quantity of contaminated groundwater is based on the NYSDEC Class GA groundwater standards which are applicable to the upper glacial and Magothy Aquifer which are found below the site. The compounds found in the groundwater that exceed the Class GA groundwater standard are 1,1,1-TCA, TCE, PCE and their breakdown products. Based on the measured concentrations the

PCE plume which exceeds the Class GA standards is much larger then the plumes of the other compounds. Based on the limited off-site data the total area of the PCE plume in the vicinity of the site is approximately 140,000 square ft. Assuming the plume extends to approximately 150 feet below the ground surface and an average porosity of .20, the total estimated quantity of contaminated groundwater is 4.2 million gallons.

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APPENDIX A

PROBE SAMPLING LOGS

	M	S	T _	-4 P		!			Boring No.: FI	_GP-01						
	Ш		Lie	st B	orin	ıg L	og		Sheet 1 of	2						
				rmer L					Project No.: 6	50-272						
Clier	nt:	VYSE	DEC						Date: Start 1-	5-98						
Drille	er:	Viron	ex							Date: Start 1-5-98 Finish 1-5-98 Total Depth: 24' Depth To Water: N/A						
Drilli	ng M	etho	d: (Geopro	be 5	400			Total Depth: 2							
Bori	ng Lo	catio	on:	Sidew	alk @) wes	t side	of D	OAK bldg. Depth To Water	er: N/A						
Cool	<u>rdina</u>	tes:							Surf. Elevation	n:						
Logo	ed E	y:	Scott	G. Er	nglert				Hole Diameter	: 2"						
Moni	torin	<u>g Ins</u>	trum	ent(s):	. O,	VA (F	ID)									
	E	Blows C	n Sam	oler				1	Classification Of Material							
Depth (ft)	6.	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20%	emarks						
0					3.1	0	N		1,000 0 10/0							
<u> </u>					٥. ١	0	14	dry								
						0			1.0-3.1 tan sand and gravel; tr. fill							
						0			1							
4									1							
									1							
4					3.1		N	dry	0.0.3.1 tan and raddish brown m. sand							
						0		-	0.0-3.1 tan and reddish brown m. sand							
						0			and gravel; lenses of finer sand							
						0										
8																
8					3.4		Υ	dry	1000 A							
						0			0.0-0.4 wash VOC sa	•						
						0			0.4-3.4 gravel and tan mc. sand FLGP-0	71(8-10						
44						0										
11																
44					4		N	dny								
11					+	0	IA	dry								
						0			0.0-1.0 wash							
						0			1.0-4.0 tan gravel and mc. sand; tr.							
14						~			f. sand							
' -+																
14					4		Υ	dry								
	1					2										
						11			0.0-1.0 wash VOC sa	•						
									1.0-4.0 gravel and tan mc. sand with FLGP-0)1(14-1						
17									some f. sand							
		.														
17					4		N	dry								
						0										
						0			0.0-0.5 wash							
						0			0.5-4.0 tan mc. sand; some f. sand							
20									little gravel							
1		1	1			ı I										

	MK	3	_	_ 4 P	•					Boring	No.: FLGP-01	-
	177	9	le	st B	orın	g L	og			Sheet	2 of 2]
Proje	ect N	ame:	For	mer L	AKA :	site R	1			Projec	t No.: 650-272	
Clier		NYSE									Start 1-5-98	
		Viron									inish 1-5-98	
Drilli	ng M	etho	d : (3eopro	be 5	400					Depth: 24'	
			on:	Sidew	alk @) wes	t side	of Do			To Water: N/A	
Cool	<u>rdina</u>	tes:									levation:	1
Logg	ged E	3y:	Scott	G. Er	nglert					Hole D	iameter: 2"]
Moni				ent(s)	: 0	VA (F	ID)				·	
	- {	Blows C	n Samp	oler	1				Classification Of Material			
Œ	_	3 .	l &	4	<u>~</u>	ng ent	₽ B	e 는	f - fine and - 35-50%	,		
Depth (ft)	90	6"-12"	2"-18"	18"-24"	Recovery (ft)	rum	Sample Retained	Moisture Content	m - medium some - 20-35%	0	Remarks	-
De		ဖ	1 +	=	8	Instrument Reading	Ω &	žٽ	c - coarse Inte - 10-20% trace - 0-10%			
20					3		Y	dry	0.0-1.0 wash		VOC sample:	1
						0			1.0-3.0 tan mc. sand; some f. sai	nd;	FLGP-01(20-22)	-
						0			little gravel	,		
22												
												-
22					3		N	dry	0.0-1.0 wash		OVA reading from	
						0			1.0-3.0 mc. sand and gravel; little	_ f	small area of	
						10			sand	- I.		-
									Sanu	l	organic material	
24										j	in core	
										l		-
									D			
	-		<u></u>						Drove screen sampler for geopro	be		İ
									waters @ FLGP-01:			-
									refused in three location at	ļ		
									40', 44' and 52'	ĺ		-
			ļ						tried to get water at 52' - dry	y l		
									. 9	-]
]		_
										1		1
										1		}
			ļ ——									-
 					ļ							1
-										1		
										j		
										I		
 					— —							_
					 					1		
					-							
			<u> </u>									_
					-							_
 			<u> </u>							1		
			 	<u> </u>	-							
					-							-
			L	L	L	L	L	L				_

	M	8	-	st B	!	ا ہے			Boring No.: FLGP-02
	Ш	J	16	St B	Orin	g L	og		Sheet 1 of 2
Proje	ect N	ame:	For	mer L	AKA:	site R	1		Project No.: 650-272
Clier		NYSE							Date: Start 1-6-98
Drille	er:	Viron	ex						Finish 1-6-98
		etho		Geopro	be 5	400			Total Depth: 24'
							t side	of D	OAK Bldg. Depth To Water: N/A
	dina			<u> </u>					Surf. Elevation:
			Scott	G. Er	alert				Hole Diameter: 2"
				ent(s)					7,000
11011		Blows O			<u> </u>				Classification Of Material
£			Γ '	T	very (ment ling	ple ned	ture	f - fine and - 35-50%
Depth (ft)	.9-,0	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	c - coarse little - 10-20% trace - 0-10%
0					1.5		Y	dry	0.0-1.0 black asphalt, gravel and sandy
						13			fill VOC sample:
						430			1.0-1.5 brown sm. gravel and mc. FLGP-02(1-2)
									sand
4									
									0.0-0.2 wash (black sand and gravel)
4					3.3	225	Y	dry	0.2-0.5 dk. brown silt and mc. sand VOC sample:
						13			0.5-3.3 tan-brown gravel w/ mc. sand FLGP-02(5-6)
						0			0.5-5.5 (all-blown graver w/ IIIc. salid FLGP-02(5-6)
						1.4			
8									
8					3	125	Υ	dry	0.0-1.0 wash
						12		-	1.0-3.0 mostly tan-brown gravel and m VOC, Metals, (
						3.5			c. sand; dk. grey-black zone @ sample:
10									1.2' FLGP-02(8-9)
									1. 251 -02(0-0)
10					1.3	5.3	N	dry	0.0-1,3 brown mc. sand with little f.
						3.7		-	sand and gravel
									outing and graver
12									
12					1.4	0	N	dry	
						5			0.0-1.4 brown mc. sand with some f.
									sand and gravel shoe came off
14									corer-sample
1-4									knocked out of
14					1.2	21	N	dry	liner
-7					<u> </u>	1.1			0.0-0.3 grey fc. sand with little gravel
						13			and silt (wash?)
16									0.3-1.2 white-tan gravel and mc. sand
-10									J. J
16		ļ			1.6	2.5	N	dry	
-10					1.0	0	<u> </u>	- <u></u> -	0.0.1.6 gray brown f. m. cand with
			ļ	 		0			0.0-1.6 grey-brown fm. sand with
10				-		<u> </u>			some c. sand and gravel
18					-	 			
				 		-			

	NA	C_		—	_	=	_			Boring	No.: FLGP-02
	W	J	Te:	st B	orin	ig L	.og			Sheet	2 of 2
				rmer L				-	**************************************		t No.: 650-272
	nt:				1	· I			<u>, , , , , , , , , , , , , , , , , , , </u>		Start 1-6-98
	er:							······································	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Finish 1-6-98
				Geopre	ohe 5	400			<u></u>		Depth: 24'
							t side	of D	OAK Bldg.		To Water: N/A
	rdina		JII.	Cidevi	ain U	II WC.	or side	<u>, 01 D</u>	DAR Blug.		Elevation:
			Scott	G. E	aglart						Diameter: 2"
				ent(s)						TIOIC L	riameter. 2
VIOII	-		n Sam		' ' '			1	Classification Of Material		1
		T C	,,, oa,		1	# _	_		f - fine and - 35-509	%	
Depth (ft)	0.'6	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading		Moisture Content	m - medium some - 20-39 c - coarse little - 10-209 trace - 0-109	5% %	Remarks
18					1.5	4.6	N	dry	0.0-1.5 tan mc. sand and grave	el with	
						2.6			little f. sand		
						0					
20											
											
20					?	0	N	dry	? tan mc. sand and gravel some f. sand	with	liner crushed and shoe came off-
22											core not intact
22					1.4	0	Υ	dry	00444		VOO
						0			0.0-1.4 tan mc. sand and white	qtz.	VOC sample:
									gravel; some f. sand		FLGP-02(22-23)
24											
							1				
		 									
		 				-					
	-	-			 						
		-	-		 						
											

	M		Te	st B	orin	ıg L	og			Sheet	g No.: FLGP-03 1 of 2
				mer L							ct No.: 650-272
	<u>ectiv</u> nt:			IIICI L	<u> </u>	SILE I	.1				Start 1-6-98
	er:			<u> </u>	ab a T	400					Finish 1-6-98
				Geopre			0 4 17	الما م			Depth: 24'
			<u>on:</u>	SW C	orner	OT D	UAK	Blag.	25300		To Water: N/A
	rdina		0 44								Elevation:
				G. E						Hole L	Diameter: 2"
Mon				ent(s)	: PI	<u>U</u>		I	015		7
_		lows O	n Samp	oier	┥.	 	ļ		Classification Of Material	5-50%	
Ē	į,	'n	20	. *	\ ery	ne ling	음절	ent für	f - fine and - 35 m - medium some - 2		D
Depth (ft)	0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	c - coarse little - 10		Remarks
		_							trace - 0		
0					2.5	8	N	dry	0.0-0.7 black asphalt and san	idy, gravel	
						0			fill		
						0			0.7-2.5 mc. brown-tan sand	and gravel	
									trace f. sand		
4											
4					2.3	24	Υ	dry	0.0-1.1 grey and brown mc.	sand and	VOC sample:
						23			darker gravel	-wild WIIM	FLGP-03(4-5)
						0			_	and with	LGF -03(4-0)
									1.1-2.3 poorly sorted brown s	aliu Willi	
8									little gravel		
8					1.5	23	Υ	dry			
						30			0.0-1.5 grey-tan fc. sand and	d some	VOC sample:
						43			gravel		FLGP-03(11-12)
											J
12											
12					0.8		N	dry	0.0-0.8 grey-lt. brown fm. sa	nd with	
						45			tr. small gravel		
14											
14					0.4	580	Υ	dry	0.0-0.4 dk. brown-dk. grey fm	n cand	sludge smell
										i, Juliu	VOC sample:
									and tr. gravel		•
16											FLGP-03(14-16)
16					1.8	45	Υ	dry	0.0-1.8 poorly sorted brown s		
						56			gravel with some patc		VOC sample:
						40			darker (stained?) mate	erial	FLGP-03(16-17)
18											
											VOC, Metals, CN
18					1.6	45	Υ	dry	0.0-0.8 poorly sorted dark sar	nd and	sample:
						62			gravel; oil odor		FLGP-03(18-19)
						11			0.8-1.6 fm. sand and sm. gra	avel with	1 EGI -05(10-13)
20									little c. sand	 -	
					1				muo o. cuito		

	M.	S	Tes	st B	orin	na I	oa 				oring No.: FLGP-03]•
											neet 2 of 2	4
				mer L	AKA	site R					roject No.: 650-272	١.
Clier		<u>NYSE</u>								D ₃	ate: Start 1-6-98	վ"
Drilk		Viron							***************************************		Finish 1-6-98	4
		letho		Geopro							otal Depth: 42'	4.
		<u>ocatio</u>	on:	SW C	orner	of Do	<u>DAK</u>	Bldg.			epth To Water: N/A	_ •
	<u>rdina</u>										urf. Elevation:	4
				G. Er						<u> </u>	ole Diameter: 2"	4
<u>Mon</u>				ent(s)	<u>: Pl</u>	<u> </u>		1				վ•
		Blows C	n Samp	oler	-					ation Of Material		
€	, .	ħ.	60	4	ery	ne n	<u>8</u> 8	a E	f - fine	and - 35-50% some - 20-35%		
Depth (ft)	 0e	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium c - coarse	little - 10-20%	Remarks	
ది	Ľ	9	Ľ	_ =	8	SE &	လ ဇို	žΰ	U - Codise	trace - 0-10%		
20					1.7	1400	Y	dry	0.0-1.7 tan mc.	sand with little sm.	VOC sample:	7
						260			gravel		FLGP-03(20-21)	
						50			g. 			
22						<u> </u>						
					†							
22					1.8	2500	N	dry	0040 61	atainad annd and	ما ما د	
					T	53				stained sand and	oil odor	
		 				400			gravel			
24		 			-	1.00			1.0-1.8 tan sand	and gravel; tr. silt		-
		 			 							
		-		-	 	 					No cores taken	
		-			-			<u> </u>			from 24-30' bgs	-
	ļ	-	 		 						resumed sampling	
									0.0-0.2 stained r	nc. sand and smal	-	
20					1.3	400	N	Alan e		iiu. sailu ailu siildi	1 1 1 20	
30					1.3	400	IN	dry	gravel	ا الحميد المستقل المستقد	l all asters	
					<u> </u>	75			• •	orted sand and smal	l oil odor	
						18			gravel			
32												
					<u> </u>	1.5			0.0-1.3 tan mc.	sand and gravel; lit	tle	
32					1.3	-	N	dry	f. sand	- ·		
						0					dark substance	•
						45					coating liner but	
34											material not	
									0.0.0.5 dark area	y oily stained fm. s	1	
34					1.5	880	Υ	dry	tr. silt	y ony stanieu iiii. S		
						300				احجم امسم امسم امماس	(oil odor)	
						300			• -	orted sand and smal	i	
36									gravel		VOC sample:	
											FLGP-03(34-35)	
											(oil odor)	
											36-40' bgs not	
	 										sampled to see if	_
											1 -	•
40	 	 			1	250	N	dry	0040	المتعادة والمستعمل المستعمل	high PID readings	
40	 	 			 '	75	. •	417	•	orted sand and med	i	
	<u> </u>	-		 	 	' -		 	quartz gı	ravel; faint staining(f	•	***
				ļ ——		 		 			material	

	MK	3		. 4 🕞					Boring No.: FLGP-04
	111	2	l i es	st B	orır	ıg L	og		Sheet 1 of 2
				mer L					Project No.: 650-272
	nt:								Date: Start 1-6-98
	er:								Finish 1-6-98
	******			Seopro	obe 5	400			Total Depth: 48'
				SW C			OAK	Blda.	Depth To Water: N/A
	rdina								Surf. Elevation:
_			Scott	G. Er	nglert				Hole Diameter: 2"
				ent(s)					
			n Samp						Classification Of Material
Depth (ft)	0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
0					2.4	120	Ν	dry	0.0-0.5 black sand and gravel-asphalt
						13			fill
						0			0.5-2.4 brown fm. sand; little gravel;
						0			trace coarse sand
4									
						4.		<u> </u>	
4					2	12	N	dry	0.0-2.0 brown, dk. grey-black silt and
						4			fine sand; tr. clay and sm. gravel
						2			
					ļ				
8					ļ				
					4.0	00	Υ	مام.	0.0-0.5 tan-brown mc. sand; tr. sm.
8					1.6	80 44	Y	dry	gravel VOC sample:
						20			0.5-1.6 brown moist silt and f. sand with FLGP-04(8-9)
						20			little mc. sand; tr. clay
12									mao iii. o. oana, ii. olay
12									
12					3.1	147	Υ	drv	0.0-1.5 tan mc. sand and gravel
14						194	•	J	
						177			
						10			gravel; some c. sand FLGP-04(13-14)
16									
16					1.1	36	N	dry	0.0.4.4 top m. a good with some are
						20			0.0-1.1 tan mc. sand with some sm.
						40			gravel; little f. sand
18									
						0.4	h :	al -	
18					0.9	31	N	dry	
						32			med. qtz. gravel; little f. sand
						25			sampler dropped
21					_				rapidly from
					1 1	0	N i	de	19-20' bgs
21					1.1	0	N	dry	0.0-1.1 tan mc. sand with some fine
						4			sand and smmed. qtz. gravel
					1	. 4		l	1

П	M	9	_	st B	•				Boring No.: FLGP-04	1
	M	J	I e	St B	orın	ıg L	og		Sheet 2 of 2	1
				rmer L					Project No.: 650-272	١
		NYSI							Date: Start 1-6-98	١
		Viron							Finish 1-6-98	1
Drill	ing N	letho	d : (Geopre	obe 5	400			Total Depth: 48'	
Bori	ng L	ocati	on:	SW C	orner	of D	OAK	Bldg.	Depth To Water: N/A	•
Coo	rdina	tes:							Surf. Elevation:	
Logg	ged E	3y:	Scott	G. E	nglert				Hole Diameter: 2"	
Mon	itorir	ng Ins	trum	ent(s)	: PI	D				
		Blows C	on Sam	pler	_				Classification Of Material	
€	١.	1.	in	ŧ.,	<u>~</u>	g er	⊕ 28	할 받	f - fine and - 35-50%	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-35% Remarks c - coarse little - 10-20% trace - 0-10%	-
26		 			1.6	0	N	dry	0.0-1.6 tan fm. sand; some c. sand sampler dropped	l
	 	1	1	 	† · · · ·	5	- ' •		and sm. gravel by weight of rods	
 		 	 	†	-	3		†	from 23-26' bgs	ľ
28		†								
		1							0.0-1.3 tan mc. sand and sm. gravel;	
30		†			1.7	0	N	dry	1	
						0			\	l
						0			1.3-1.7 tan fm. sand; tr. c. sand	
32									no gravel	Γ
										ĺ
32					1.2	3	Υ	dry	0.0-0.6 tan fm. sand; tr. sm. gravel	_
						12			0.6-1.2 red-brown gravelly mc. sand VOC sample:	-
									with trace fine sand FLGP-04(33-34)	
34										
									Attempt to reach	
									groundwater was	
									unsuccessful -	
									refusal on hardpan	
									or gravel layer at	
									48' bgs	
 									1.0 250	
		ļ							Also collected field	
		<u> </u>	<u> </u>						blank sample:	
			-						FLFB-01	
									1 21 5-01	
					 					
		 	 							
 		-								-
 		 								
	-	-								
		 								
 		 								
 										
						1				
		·								
L		L	L							

	M	S	-	st B	!				Boring No.: FLGP-05
		J	Lie	St B	orın	ıg L	og		Sheet 1 of 1
				rmer L					Project No.: 650-272
		NYSI							Date: Start 1-6-98
Drille	er:	Viron	ex						Finish 1-6-98
Drilli	ng M	etho	d: (Geopro	be 5	400			Total Depth: 24'
			on:	Sourc	e are	a @ \$	SW C	orner	r of DOAK Bldg Depth To Water: N/A
	<u>rdina</u>								Surf. Elevation:
				G. Er			_		Hole Diameter: 2"
Moni				ent(s)	<u>: PI</u>	<u> </u>			
		Blows C	n Sam	pler T	1				Classification Of Material
Depth (ft)	ď	7	₩	24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% Pemarks
ept	.90	6"-12"	12"-18"	18"-24"	8 €	stru	Sam	Aois	c - coarse little - 10-20%
			,			드╙			1100 0 10 10
0					1.6	0	N	dry	1
				ļ		0		ļ	asphalt
								 	0.6-1.6 tan f. sand; tr. gravel and mc.
4								<u> </u>	sand
-									1
4					3.5	0	N	dry	0.005 dt. haaring and dt. maari alle and
•					j. U	0			0.0-3.5 dk. brown and dk. grey silt and
		L				0			f. sand
						4			
8									
8					3	6	Υ	dry	0.0-1.0 red-brown mc. sand and sm
						4			med. gravel VOC, Metals, C
						9			1.0-3.0 tan mc. sand and gravel samples:
40									FLGP-05(9-10)
12									
12					3.1	18	N	dn/	0004
12					ا .ن	20	IN	ui y	0.0-3.1 tan mc. sand and smmed.
+						40			gravel; zones of Fe-stained
						50			- sand
16									1
••									
16					3	80	Υ	dry	0.0-3.0 mc. sand and sm. gravel (faint
						77			staining at 0.6?)
						78			VOC, Metals, C
						75			samples:
20									FLGP-05(16-17
							k i	ماند ا	
20					1.1	4	N	dry	0.0-1.1 tan/orange fm. sand with some
						2			c. sand and sm. gravel: little
22									med. gravel
22					0.9	0	N	dry	1
22					0.5	2	14	ui y	1
									0.0-0.9 tan/brown mc. sand and gravel
24			-					\vdash	little f. sand

Project Name: Former LAKA site RI		No.: FLGP-06	Boring			og	g L	orin	st Bo	Tes	S	M	
Client: NYSDEC Driller: Vironex Srinish 1-6-98 Total Depth: 24' Boring Location: East side of Kinkel St. in front of DOAK west entrance Depth To Water: N/A Coordinates: Surf. Elevation: Hole Diameter: 2" Monitoring Instrument(s): PID Classification Of Material 1 - fine										L			
Driller: Vironex Finish 1-6-98 Drilling Method: Geoprobe 5400 Total Depth: 24 Drilling Method: Geoprobe 5400 Total Depth: 24 Depth: 25 Depth: 25 Depth: 25 Depth: 25 Depth: 25 Depth: 26					· //·········	<u> </u>	site K	4N4 S	mer L				
Drilling Method: Geoprobe 5400 Boring Location: East side of Kinkel St. in front of DOAK west entrance Depth To Water; N/A							-	- Aller					
Boring Location: East side of Kinkel St. in front of DOAK west entrance Surf. Elevation: Surf. Elevation: Surf. Elevation: Surf. Elevation: Surf. Elevation: Hole Diameter: 2" Monitoring Instrument(s): PID							400	<i></i>					
Cogrdinates: Surf. Elevation: Hole Diameter: 2" Hole Diameter: 2" Monitoring Instrument(s): PID Classification Of Material 1 - fine and - 35-50% m- medium some - 20-35% little - 10-20% m- medium some - 20-35% m- m- some and some sm- med. gravel little f. sand m- medium some - 20-35% m- m- some sm- med. gravel m- medium some - 20-35% m- m- some sm- med. gravel m- medium some - 20-35% m- medium some sm- med. gravel m- medium some sm- med.													
Logged By: Scott G. Englert Monitoring Instrument(s): PID Blows On Sampler \$\frac{1}{2} \frac{1}{2}				ront of D	. in tro	(el St	t Kink	ide o	<u>East s</u>	on:			
Monitoring Instrument(s): PID Blows On Sampler Eg Blows On Sampler E													
Blows On Sampler		liameter: 2"	Hole D	-									
Second		,			,		<u>D</u>	: PI	ent(s):	trume	<u>ng Ins</u>	<u>itorir</u>	Mon
Second S							İ		oler	n Samp	Blows O		
O	-	Remarks	- medium some - 20-35% - coarse little - 10-20%	outen	Moisture Content	Sample Retained	Instrument Reading	Recovery (ft)	18"-24"	12"-18"	6"-12"	0,-6	Depth (ft)
1			asphalt and black sand/gravel	y 0.0-0.	dry	N		2.6			1		0
0	-						0				1	 	
1			****	0.6-2			0						
4			our a una one, nuo gravor	J.U-2.									
3.3				\exists							1		4
12 3.4 0 N dry 0.0-3.5 poorly sorted sand with some med. gravel; little sm. gravel VOC, Metals, C sample: FLGP-06(10-11)										 	1		<u> </u>
10	1			/ 0.0-3.1	drv	N	0	33			-		1
8			little f. sand	4	wil	- ' -		0.0			-	 	
8				_						-	-		
8				-	 					 	+	ļ ——	
8				\dashv			U			 			<u> </u>
med. gravel; little sm. gravel Mary Mar	-			_				 			-	<u> </u>	<u> </u>
med. gravel; little sm. gravel Mary Mar	Ì		noorly sorted sand with some	- 003	,.l.,	.,		<u> </u>		 			
12 3.4 0 N dry 0.0-1.2 f. sand and silt; tr. mc. sand and gravel 1.2-3.4 tan mc. sand and med. qtz. gravel; little f. sand 16 3.5 3 N dry 0.0-1.0 dark stained(?) fm. sand and some smmed. gravel 1.0-3.5 mc. sand and gravel; little fine sand 1.0-3.5 mc. sand and gravel 1.0-3.5			•	<u>/</u> 0.0-3.	dry	Y		3.5		 		<u> </u>	8
12	.N	VOC, Metals, CN	mea. gravei; little sm. gravel	_	<u> </u>							<u> </u>	
12	-	· -											
12	1)	FLGP-06(10-11)	ı				0				1		
and gravel 1.2-3.4 tan mc. sand and med. qtz. gravel; little f. sand 0.0-1.0 dark stained(?) fm. sand and some smmed. gravel 1.0-3.5 mc. sand and gravel; little fine sand			i										12
and gravel 1.2-3.4 tan mc. sand and med. qtz. gravel; little f. sand 0.0-1.0 dark stained(?) fm. sand and some smmed. gravel 1.0-3.5 mc. sand and gravel; little fine sand	•												
and gravel 1.2-3.4 tan mc. sand and med. qtz. gravel; little f. sand 3.5 3 N dry 0.0-1.0 dark stained(?) fm. sand and some smmed. gravel 1.0-3.5 mc. sand and gravel; little fine sand	Ì		f. sand and silt: tr. m -c. sand	0.0-1	dry	N		3.4					12
1.2-3.4 tan mc. sand and med. qtz. gravel; little f. sand 16			· · · · · · · · · · · · · · · · · · ·				0						
gravel; little f. sand 3.5 3 N dry 0.0-1.0 dark stained(?) fm. sand and some smmed. gravel 1.0-3.5 mc. sand and gravel; little fine sand	-		_	122			0						
16 3.5 3 N dry 0.0-1.0 dark stained(?) fm. sand and some smmed. gravel 1.0-3.5 mc. sand and gravel; little fine sand			•	1.2-3.									
16 3.5 3 N dry 0.0-1.0 dark stained(?) fm. sand and some smmed. gravel 1.0-3.5 mc. sand and gravel; little fine sand			graver, ittile r. sand										16
some smmed. gravel 3.4 1.0-3.5 mc. sand and gravel; little fine sand	-			٦.									
some smmed. gravel 1.0-3.5 mc. sand and gravel; little fine sand	-		- ·	0.0-1.	dry	N	3	3.5			—		16
3.4 1.0-3.5 mc. sand and gravel; little fine sand			-		–							 	· •
sand			mc. sand and gravel; little fine	1.0-3.							1	<u> </u>	
			sand	_						 	 		
				-	†					 	+		20
				-				 			-	-	20
20 1.3 0 Y dry 0.0-1.3 brown fm. sand; tr. very coarse		1	brown f.m. sand: tr. you coerco.	7 001	dny	V	0	12			 	-	20
	1			v U.U-1.	ury	- '-	-	1.3		 	-	-	20
sand			sand	_	-						-	 	
VOC, Metals, C	N F	VOC, Metals, CN		4	 	 				 	-	<u> </u>	22
L L L L L L L L L L L L L L L L L L L		1		_	 			1				<u> </u>	
))	FLGP-06(20-22)	mc. sand and smmed. gravel	^y	ary	N	U	1.3					22
~ rLGP-06(20-22	-)	LGF-U0(20-22)		_		ļ		<u> </u>					
				_	ļ	<u> </u>							
24					<u> </u>	<u> </u>		<u> </u>					24

	M	3	_			_				Borin	g No.: FLGP-07
	Ш		Te	st B	orin	ıg L	og			Sheet	
				rmer L							ct No.: 650-272
Clier		NYSE			J 11 U 1	<u> </u>					Start 1-6-98
Drille		Viron									Finish 1-6-98
		etho		Geopre	obe 5	400					Depth: 24'
		catio					SW C	orner	of DOAK Bldg.		To Water: N/A
	dina										Elevation:
Logg	ed B	y:	Scott	G. E	nglert					Hole [Diameter: 2"
<u>Moni</u>	<u>torin</u>	<u>g Ins</u>	trum	ent(s)	; PI	D	,				_
]	E	Blows C	n Samp	oler	4	ļ			Classification Of Material		
Depth (ft)	.9-,,0	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35° c - coarse little - 10-20% trace - 0-10%	%	Remarks
0					2.7	0	N	dry	0.0-1.5 asphalt and brown sandy	fill	
						0			1.5-2.7 orange/tan fm. sand and	l sm.	
						0			gravel		
			, , , , , ,					L			
4											
_					1.1	0	N	dny	0.0-1.1 fm. sand and dk. silt with	trace	
4					1.1	0	IN	dry	clay and fill		
						-					
				ļ	 						
8											
- 											
8					1.7	0	Υ	dry	0.0-1.7 medium sand and sm. gra		
						1.9		•	with some dk. brown silty	lenses	VOC, Metals, C
						0					sample:
					ļ						FLGP-07(10-11
12											
								_1 -			
12					0.7	32	N	dry	0.0-0.7 medium sand and little gra	avel	
14					ļ						
14											
14					1.4	98	Υ	dry			VOC, Metals, C
-1-7					† · · · •	8	•	/	0.0-1.4 tan med. sand with little gi		sample:
						36			darker appearance top 0.5	o'	FLGP-07(14-16
16											
16					0.4	46	N	dry			
									0.0-0.4 orange-tan fm. sand with		
4.5					-				sm. gravel; patches of dar	K	
18					 				staining(?)		
40					1.6	67	Y	dry			
18					1.0	61	ı	ury			VOC, Metals, Cl
						130			0.0-1.6 tan fm. sand and small		sample:
20					 	100		L	quartz gravel		FLGP-07(18-20)
20				ļ	 						. 201 -07(10-20

	M	S	Ta	st B	orin	l	^~		Boring No.: FLGP-07	•
	Ш	<u> </u>	16	SLD	OHI	ıg L	og		Sheet 2 of 2	
Proj	ec <u>t</u> N	ame:	: Fo	rmer L	AKA	site R			Project No.: 650-272	
Clie		NYS							Date: Start 1-6-98	٠
		Viron							Finish 1-6-98	
				Geopro	phe 5	400			Total Depth: 24'	
							SW/C	orner	of DOAK Bldg. Depth To Water: N/A	
Coo			<u> </u>	Ocuic	e are	a w ·	<u> </u>	OTTICE	Surf. Elevation:	
			Coott	<u> </u>						
				G. Er					Hole Diameter: 2"	L
MOU				ent(s)	<u>: Pl</u>	<u>U</u>		T		•
1		Blows C	n Sam	pler	-			1	Classification Of Material	
Depth (ft)	0,-6	6"-12"	12"-18"	18"-24"	Recovery (ff)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	=
20					0.9		N	dry	0.0-0.9 dk. grey med. sand with some	
						41			sm. gravel	
									g	
22										-
22				†	1.8	0	N	dry		_
£- £-	-	 -	<u> </u>		1.0	5.4	1.4	ury.	0.0-1.8 orange-tan fm. sand with some VOC, Metals, CN	
						4			small gravel; tr. coarse sand samples:	
0.4			<u> </u>			4			FLGP-07(22-24)	
24									1 201 07(22-24)	
										_
			L							
			T							
			 							
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	MK	2	_		_	-			Boring No.: FLGP-08
	ME		Te	st B	orin	ıg L	og		Sheet 1 of 2
Proi	ect N	ame:	Fo	rmer L	AKA	site R	1		Project No.: 650-272
Clier	***************************************	NYSE							Date: Start 1-7-98
Drille		Viron							Finish 1-7-98
Drilli	ng M	etho	d: (Geopro	be 5	400			Total Depth: 24'
			on:	Sourc	e are	a @ 9	SW C	orner	of DOAK Bldg. Depth To Water: N/A
	dina								Surf. Elevation:
				G. Er					Hole Diameter: 2"
Moni				ent(s)	<u>: Pl</u>	<u>D</u>		T	
_	E	Slows C	n Samı	pier		<u>.</u>			Classification Of Material
Depth (ft)	.9,0	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-35% Remarks
0				 	2.1	2	N	dry	0.0-0.3 black asphalt, sand and gravel
\dashv					2.1	4	1.4	u, y	0.3-2.1 silt and sm. gravel; some fm.
						11			sand
-				 		0			Saira
4									
4					2.4	2	Ν	dry	0.0-2.4 orange-brown mc. sand, some
						1			smmed. gravel
						6.4			on. mod. gravo.
8									
8					3.2	8.5	Y	dry	0.0-3.2 orange-brown mc. sand with
0				 	J.Z	2.5	- '	ury	some smmed. gravel and small VOC, Metals, (
						5			zones of gravel only; tr. fine sample:
						9			sand FLGP-08(10-1
12									
									0.0-1.1 tan fm. sand; little med. gravel
12					1.1	9	N	dry	and coarse sand; tr. sm. gravel
						36			
14									
					4.4	0	N	dry	0.0-1.4 brown fm. sand with little med.
14					1.4	33	IA	ury	gravel and coarse sand; tr. sm.
-						69			gravel
16						-			
									
16					1.2	4	N	dry	0.0-1.2 orange-brown sand and gravel
						8			material fines downward
						30			through core
18									
10					1 4		V	طم،	
18					1.1	2 8	Υ	dry	0.0-1.1 tan fm. sand with sm. zones of
						2			qtz. gravel; little coarse sand VOC sample:
20								L	FLGP-08(22-2
20					 				

	M	S	To	st B	orin				Boring No.: FLGP-08
	Ш		16:	ol D'		y L	ug		Sheet 2 of 2
Proj	ect N	ame:	For	mer L	AKA :	site R	<u> </u>		Project No.: 650-272
Clier	nt:	NYSE	DEC						Date : Start 1-7-98
Drille	er:	Viron	ex						Finish 1-7-98
Drilli	ng M	etho	d: (Geopra	be 5	400			Total Depth: 24'
Bori	ng Lo	ocatio	on:	Sourc	e are	a @ 5	SW C	orner	of DOAK Bldg. Depth To Water: N/A
	rdina								Surf. Elevation:
			Scott	G. Er	nalert				Hole Diameter: 2"
				ent(s)				***************************************	
		Blows C				Î			Classification Of Material
•			T		_	±	. 3	d)	f - fine and - 35-50%
Depth (ft)	0.'6	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-35% Remarks c - coarse little - 10-20% trace - 0-10%
20					1.1	15	N	dry	0.0-1.1 mostly tan f. sand with little sm.
						16			gravel and narrow zones of
						17			coarse sand
22									000130 30110
22					1.1	1	Υ	dry	O O A A tour 6 mand with little a mand
					<u> </u>	9	-		0.0-1.1 tan f. sand with little c. sand; VOC, Metals, CN
						9			trace sm. gravel sample:
24		ļ	<u> </u>			<u> </u>			FLGP-08(22-24)
		 							,,
					ļ	-			
Manual Control		ļ							
		 			-	-			
		<u> </u>						ļl	
		 							
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	M	SI	TA	st B	orin	ıa I	OCI						g No.: FLGP-09			
				J. D	<u> </u>	.A _	<u></u>					Sheet				
				rmer L	<u>AKA</u>	site R	<u> </u>						ct No.: 650-272			
Clier		NYSE					-						Start 1-7-98			
<u>Drille</u>		Viron											Finish 1-7-98			
***********		etho		Geopre									Depth: 24'			
		<u>ocatio</u>	on:	Sidev	<u>/alk ir</u>	front	t of w	<u>est</u> er	trance to	Doak building			To Water: N/A			
Coor													Elevation:			
				G. E								Hole [Diameter: 2"			
Moni				ent(s)	<u>: PI</u>	D	1	т	7							
ļ	!	Blows C	n Samp	oler T	-			ĺ	.	Classification O	f Material and - 35-50%		j			
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	l .	nne medium coarse	some - 20-35% little - 10-20% trace - 0-10%	6	Remarks			
0				 	2.6	5	N	dry	0.0-0.5	asphalt with b	lack sand ar	nd				
						8	<u> </u>		1	gravel fill						
					†	7		l		silt and f. sand	d: tr. c. sand	and				
-					1	2				small gravel	,	and 1 to 4				
4									•	a. g.a.o.						
									0.0-3.1.4	orange-brown	poorly sorte	d				
4					3.1	5	Υ	dry		sand and sm.			VOC sample:			
						1				gravel; tr. silt	graver, intie	mou.	FLGP-09(6-7)			
						6			ę	graver, tr. Sill			LGF-09(0-7)			
						5										
8																
									0007		والمراجع والمراجع والمراجع والمراجع	سا				
8					2.7	4	N	dry		orange-brown	•					
						5				and and grav	eı; tr. med. c	ĮtΖ.				
						4			g	gravel						
						16										
12																
						00	A.I	مارت د								
12					3	20	N	dry		orange-brown	•	d				
						11 5			9	ands and gra	vel					
						14										
10						14										
16																
16					1	8	Υ	dry		orange-brown		wn				
-10					 '	16	· •		9	and and grav	el					
													VOC sample:			
18					 								FLGP-09(16-18			
								-								
18					1.2	7	N	dry	0.0-1.2 t	an fm. sand	with some s	m.				
-						12			Ç	gravel; little co	arse sand					
									`							
20																
20					0.4	17	N	dry	0.0-0.4 t	an fm. sand	; some smr	ned.				
										gravel; little co						
ı					1					g		1				

	M	S	TA	st B	orin	~ I	^~				No.: FLGP-09	
			16:	SLD	OTH	y L	og			Sheet	2 of 2	
Proj	ect N	ame:	For	mer L	AKA	site R				Projec	<u>t No.: 650-272</u>	
Clie	nt:	NYSE	DEC								Start 1-7-98	_
		Viron									inish 1-7-98	
				Geopro							Depth: 24'	
			on:	Sidew	alk ir	front	of w	<u>est er</u>	trance to DOAK building		To Water: N/A	_
	<u>rdina</u>										levation:	_
				G. Ei						Hole D	iameter: 2"	_
Mon				ent(s)	<u>: Pl</u>	<u> </u>						_
		Blows C	n Samp	pler	4				Classification Of Material			1
€	١.	<u>ئ</u>	åo	-	er	ng ie	e e	할	f - fine and - 35-50% m - medium some - 20-359			- 1
Depth (ft)	9.0	6"-12"	12"-18"	18"-24"	Recovery (ft)	radii sadi	Sample Retained	Moisture Content	m - medium some - 20-359 c - coarse little - 10-20%		Remarks	
ద్ద		ဖ	'	=	8	Instrument Reading	0, %	žŏ	trace - 0-10%			
22					0.9	10	Y	dry	0.0-0.9 tan and white poorly sorte	d	VOC sample:	コ
						53			sand and gravel		FLGP-09(23-24)	
									5 S			
24										İ		- }
					<u> </u>							
		<u> </u>				 						
		 	 				-			į		- 1
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	MK	8	 	_4 P	•				Boring No.: FLGP-10
	777		l l e	st B	orın	g L	og		Sheet 1 of 1
				mer L					Project No.: 650-272
	nt: I					-1.0 1			Date: Start 1-7-98
	er:								Finish 1-7-98
				Geopro	sho 5	400			Total Depth: 24'
	ng Lo						. @ (SIA/ C	
	rdina		<i>)</i> [].	iveal :	SOUIC	e ale	a w	5VV C	orner of DOAK Bldg. Depth To Water: N/A Surf. Elevation:
			C4	^ F.					
				G. Er					Hole Diameter: 2"
IVIOII				ent(s)	: <u>Pl</u>	<u> </u>	Γ	<u> </u>	Classification Of Malarial
Depth (ft)	.9-,0	6"-12" Swolg	12'-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	Classification Of Material f - fine
0					2.6	2	N	dry	0.0-0.3 black asphalt with sand and
						5			gravel (fill)
						5			0.3-2.6 brown silt with little f. sand and
						3			trace sm. gravel
4									ado om garo
4					3.2	2	Z	dry	0.0.2.0 brown/orongo f. m. cond.and
						3		_	0.0-2.0 brown/orange fm. sand and
						1			small gravel
						3			2.0-3.2 tan-dk. brown fm. sand; little
8									sm. gravel
8					3.1	30	Υ	dry	0.0-3.1 poorly sorted sands and gravels;
<u> </u>						30		,	little narrow zones of darker VOC sample:
						8			sand (stained?) FLGP-10(10-1
						35			
12									
'-									
12					3	2	N	dry	0.0.3.0 marriy corted conde and grouple
14						0		w. j	0.0-3.0 poorly sorted sands and gravels
						23			
						20			
16									
10									
16					2.8	5	Υ	dry	0.0-2.8 more poorly sorted sand with
10					۷.۵	5	•	ury	gravel VOC, Metals,
						20			sample:
						5			FLGP-10(17-1
20					ļ	-			LGF-10(17-1
20									
					1.4	2	N	dry	0.0.1.4 tan orange poorly sorted and
20				ļ <u>.</u>	1.4	2	IN	ury	0.0-1.4 tan-orange poorly sorted and
									gravel; material fines downward
22									through the core
					4 4		V	- جداس	
22					1.1	0	Υ	dry	0.0-1.1 tan poorly sorted sand and VOC sample:
						0			gravel; med. qtz. gravel zone @ FLGP-10(23-2
					L				0.9'
24									

	M	S_	Te	st B	orin	ıg L	og					Boring Sheet	No.: FLGP-11
Dr. :	act N	lama.	Ec	rmer L	A KA	cito D	1						t No.: 650-272
Clier		NYS[illei L	ANA	SILE I							Start 1-7-98
		Viron											Finish 1-7-98
		letho		Geopr	ohe F	400							Depth: 24'
		ocatio					a @ 9	SIMIC	orner of I	OOAK Bldg.			To Water: N/A
	rdina		JII	iveal	soui C	e ale	a w	J V V	OTTICE OF I	JUAN BIUY.			Elevation:
			Scott	G. E	nolor								Diameter: 2"
												noie r	nameter. Z
NOII		Blows C		ent(s)	<u>, FI</u>	٢	ı —	I		Classification	Of Material		
_	 	DIOMS (n oam	hiei	1	<u>_</u>					and - 35-50%		1
Depth (ft)	in	7	20	24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content		- fine - medium	some - 20-35	%	
apt	09	6"-12"	12"-18"	18"-24"	39 €	stru ead	sam	lois	i	- coarse	little - 10-20%		Remarks
											trace - 0-10%		
0					2.2	3	N	dry	0.0-1.0	asphalt and	black sandy,	gravel	
						3				fill			
						5			1.0-2.2	brown silty f	. sand and sm	١.	
]	gravel			
4										3			
]				
4					0								No roomer
													No recovery
									1				4-8' bgs
8	<u> </u>	<u> </u>							1				
<u> </u>			 	 	†								
8	-	 	 	<u> </u>	2.6	5	N	drv	0.0-2.6	brown silt ar	nd f. sand with	some	
-		-	 		2.0	5	1.4	ury	1	smmed. gra			
					 	11				o.ii. iiioa. git	aron, in oney		
					-	-'-							
12		 	 	 									
12		-	-		 								
40					10		N.I	، جام	_		_		
12		 			1.9	0	N	ury	0.0-1.9		f. sand with so		
			-	 	 	65				mc. sand a	nd sm. gravel		
					-	31							
					 	ļI							
16													
					-								
16					2.3	32	Υ	dry	00-33	f m sand a	nd sm. gravel;	all	VOC sample:
						72			0.0-2.3	stained dark	-	an	•
					<u> </u>	350				statiled dark	grey-black		FLGP-11(19-20)
		ļ											
20									Į				
20					1.6	43	Υ	dry					
						29			0.0-1.6	mostly tan f.	-m. sand with	some	VOC sample:
						78				-	nd tr. med. gr		FLGP-11(23-24)
										g, a, o, a	g,		
24													
									İ				
		 		 	 	l			1				

	M	S	┰╖	st B	_=:-	~ I	^~			Borin	g No.: FLGP-12
	M		ı e	St D	Orin	ıg L	og			Sheet	t 1 of 1
				rmer L						Proje	ct No.: 650-272
		NYSE		·····							Start 1-8-98
Drille	er:	Viron	ex								Finish 1-8-98
Drilli	ng M	etho	d :	_arge l	bore s	sampl	er-ha	nd dr	ven	Total	Depth: 14' bgs
		ocatio							t Shop parking lot		To Water: 4' bg
	rdina										Elevation:
			Scott	G. Ei	nglert					Hole I	Diameter: 2"
				ent(s)							
		3lows C							Classification Of Material		
æ				l	چ	g er	<u>a</u> 26	e +	f - fine and - 35-50%		
Depth (ft)	.g0	6"-12"	12"-18"	18"-24"	Š€	nstrument Reading	Sample Retained	Moisture Content	m - medium some - 20-35		Remarks
Dep	Ò	Ģ	12	₩ <u></u>	Recovery (ft)	Instrument Reading	Sa	§ပိ	c - coarse Intite - 10-209 trace - 0-10%		
12			 	<u> </u>	0.6	50	Y	wet			sludge has tar-li
1 4-				 		20	 	-,, -,	covered by about 8' of wa		odor
						15			Covered by about 0 Of Wa	4101	10001
			-	 	-	,,,					
14			 	 							VOC, Metals, C
17				1	ļ —						SVOC sample:
											FLGP-12sludge
											
			L	-							(sample materia
				 							recovered from
											several closely-
				-	-						spaced cores in
											sludge)
											siduge)
				<u> </u>							
				l !							
					 						
				ļ							
			***************************************		<u> </u>						
											
				ļ							
											1

П	M.	S	To	st B	orin					oring No.: FLGP-13
			16	St D	OH	<u>19 L</u>	og			neet 1 of 1
				rmer L	<u>AKA</u>	site R	<u> </u>			oject No.: 650-272
Clier		<u>NYS</u> [D:	ate: Start_1-8-98
		Viron								Finish 1-8-98
		<u>letho</u>		arge						otal Depth: 14' bgs
Bori	ng Lo	<u>ocati</u>	on:	Drain	age g	rate i	n The	Kara	t Shop parking lot De	epth To Water: 4' bgs
Cool	<u>rdina</u>	tes:								urf. Elevation:
Logg	ged E	3y:	Scott	G. E	nglert				Ho	ole Diameter: 2"
				ent(s)						
			n Sam						Classification Of Material	
				T .		Ę D	, ,	يد به	f - fine and - 35-50%	
Depth (ff)	06	6"-12"	12"-18"	18"-24"	Recovery (ff)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
12					0.7	55	Y	wet	0.0-0.6 black, sandy, mucky sludge	sludge has tar-like
					T	45			covered by about 8' of water	1 -
						32				
					1		 			VOC Motols CNI
14										VOC, Metals, CN,
										SVOC sample:
					†					FLGP-13sludge
			<u> </u>	 						
			 							Field Blank, MS
										and MSD samples
-		-	 		 					also collected
		 	 			 	-			1.55 5511551.54
										(cample material
-			 			ļ	-			(sample material
		-	 	<u> </u>	 		ļi			recovered from
					-					several closely-
										spaced cores into
					<u> </u>					sludge)
				ļ		ļ				
-					<u> </u>					
				<u> </u>		<u> </u>				
	···									
		<u> </u>			ļ					
			<u> </u>		ļ	ļ				
					<u></u>					1
						<u> </u>				
			ļ							
			†							
L		L	L	L			L	<u> </u>		

	M	3	 	st Bo	_ µ!	- I			Bor	ing No.: FLGP-14
حا	Ш		l i es	St R	orin	ıg L	og		She	et 1 of 2
***				mer L					Pro	ject No.: 650-272
Clien		NYSE								e: Start 1-8-98
Drille	er:	Viron	ex							Finish 1-8-98
Drilli	ng M	etho	d: (Geopro	be 5	400			Tot	al Depth: 40'
<u>Borir</u>	ng Lo	ocatio	n:	Source	e are	a @ S	SW C	orner	of DOAK Bldg. Der	th To Water: N/A
<u>Coor</u>										f. Elevation:
				G. Er					Hol	e Diameter: 2"
<u>Moni</u>				ent(s):	PI	D				
}	E	Blows O	n Samp	oler				}	Classification Of Material f _ fine and - 35-50%	
Depth (ft)	06	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0					3	11	N	dry	0.0-0.5 asphalt and black sand and	oil odor
						35			gravel fill	
						63			0.5-3.0 brown poorly sorted sand and	
						142			gravel; zones of dark staining	
4									_	
					4		k i	لي		
4					1	17	N	dry	0.0-1.0 tan fc. sand and sm. gravel;	oil odor
						18			little staining	
								<u></u>	-	
8										
3										
8					1	33	N	dry	0.0-1.0 tan fm. sand and sm. gravel	
-					•	38			little coarse sand	oil odor
									tr. med. gravel and narrow	
									zones of staining	
12									-	
12					1.1		Υ	dry	0.0-0.9 dk. brown poorly sorted sand	VOC, Metals, CN
						1345			and gravel	MS, MSD sample
									0.9-1.1 dk. stained poorly sorted sand	
									and gravel; oil stained	oil odor
16									- -	
16					?	2400	N	dry		
16					ı	∠400	IN	ury	? dk. stained sand and gravel	sample recovere
										in bag - liner wa
										crushed
20									0.0-0.7 tan fm. sand and sm. gravel	PID readings fro
									little med. gravel	volatiles in bag
20					0.7	65	N	dry		
						95				
22									0.0-0.8 white and tan fm. sand with	
									zones of crushed qtz. gravel a	nd
22					8.0	116	N	dry	little med. gravel	
						112			· ·	
				I		1		I		

	M	S	Tal	st B	ori n		~~			Boring	g No.: FLGP-14
	Ш	J	ı e	St B	OTIN	ig L	og			Sheet	2 of 2
				mer L						Projec	ct No.: 650-272
Clier		NYSE									Start 1-8-98
Orille		Viron		···········		······································					Finish 1-8-98
		letho		Geopro	be 5	400				_	Depth: 40'
		ocatio					SW C	orner	of DOAK Bldg.		To Water: N/A
	dina										Elevation:
			Scott	G. Er	nalert						Diameter: 2"
				ent(s)							
			n Sam						Classification Of Material		
<u> </u>			1	T	1 ~	E		a +	f - fine and - 35-509	6	
Depth (ft)	06	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-38 c - coarse little - 10-209 trace - 0-109	6	Remarks
24					0.7	60	N	dry	0.0-0.7 light brown fm. sand; lit	le sm.	Elevated PID
						61			gravel; tr. c. sand		readings may be
											from smearing of
26											contamination
											downward through
											borehole
									0.0.1.0 tandight brown f. m. con-	4- 11440	POLETIONE
26	-				1	28	Ν	dry	0.0-1.0 tan-light brown fm. sand		
						28			small gravel; tr. med. gra	vei	
						61					
28											
											skipped sampling
32					0.9	24	N	dry	0.0-0.4 tan f. sand; tr. sm. gravel		from 28-32' bgs
						31			0.4-0.9 red/orange mc. sand ar		
\neg									gravel		
34									9,-,-,		
							-				 skipped sampling
											from 34-38' bgs
8					1.3	150	Y	dry	0.0.0.0 ton 14 brown	nd 0	inom 54-56 bgs
-				-		78			0.0-0.9 tan-lt.brown mc. sand a	nu sm.	V00
-									gravel; little med. gravel	al a	VOC sample:
									0.9-1.3 red brown cvc. sand and		FLGP-14(39-40)
10	-								gravel; some dark stainin	g	
											attempt to sample
											groundwater was
											unsuccessful; me
											refusal on hardpa
											or gravel layer at
											40.9' bgs
	-										
											1

	M	3	Ta	st B	orin	a I	04				ng No.: FLGP-15
			-							Shee	et 1 of 2
<u>Proje</u>			***************************************	rmer L	<u>AKA</u>	site R	.1			Proje	ect No.: 650-272
Clier	nt:	NYSE	DEC							Date	: Start 1-8-98
Drille	er:	Viron	ex								Finish 1-8-98
		etho		<u>Geopro</u>							Depth: 42'
<u>Borii</u>	ng Lo	<u>ocatio</u>	on:	South	of si	dewal	k lea	<u>ding t</u>	o west entrance of DOAK buildi		h To Water: N/A
Coor										Surf.	Elevation:
				G. Er						Hole	Diameter: 2"
<u>Moni</u>	torin	g Ins	trum	ent(s)	: <u>Pi</u>	<u> </u>					
	E	Blows C	n Sam	oler					Classification Of Material		
Depth (ft)	06.	6'-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35 m - medium some - 2 c - coarse little - 10 trace - 0	0-35% 20%	Remarks
0				 	2.6	17	N	dry	0.0-1.8 brown-dk brown silt w		
- 					0	28	. 1 1	<u> ~.7</u>	fine sand; tr. small gra		
						73			1.8-2.6 brown f. sand with little		
						100			gravel	Jitiali	
4					-				Ata sei		
									0.0-0.5 brown silt and f. sand;	tr em	
4					2.5	1	Υ	dry	-	u. 3111."	VOC sample:
						3			med. gravel	daro	•
	A.1.					250			0.5-1.3 brown silty clay; tr. sar	_	FLGP-15(7-8)
						275			1.3-2.5 orange-brown fm. sa		
8									some smmed. gravel	; tr. c.	
					- //-				sand and lg. gravel		
8					3.3	130	Υ	dry	0.0-3.3 orange/brown mc. sa		
						80			sm. gravel; tr. med. qt	_	VOC, Metals, CI
						300			some zones of oil stair	ning(?)	sample:
						700					FLGP-15(11-12)
12											,
									0.0-1.8 orange/brown fm. sa	nd with	
12					1.8	90	N	dry	little cvc. sand; tr. sm	.gravel	
						40			and silt		
						150					
16											
					2.6	-	Y	dry	0.0-2.6 orange/brown poorly s	orted	
16					2.6	8 90	1	ury	sand w/ little sm. grave		
						26			coarse downward thro		VOC sample:
						140				•	FLGP-15(19-20)
20						170					LOF-10(19-20)
20											
20					1.8	56	N	dry	0.0-1.8 light brown fm. sand	and sm	
20					1.0	68		~, ,	gravel with little med.		
						52			coarse sand	jiavoi, u.	
									coarse sailu		
- 1											
24	ı										

	M	S	Ta	st B	_ Orin		0~				No.: FLGP-15
	M	<u> </u>	16:	SLD	Om	ıy L	og			Sheet	2 of 2
Proj	ect N	ame:	For	rmer L	<u>AKA</u>	site R	1			Projec	t No.: 650-272
Clie	nt:	NYS	DEC							Date:	Start 1-8-98
Drill	er:	Viror	ex						,	F	Finish 1-8-98
Drill	ng M	<u>letho</u>	d : (<u>Geopro</u>	<u>bbe 5</u>	400					Depth: 42'
Bori	ng Lo	ocati	on:	South	of si	d <u>ewa</u>	k lea	ding t	o west entrance of DOAK building	Depth	To Water: N/A
Coo	<u>rdina</u>	tes:									Elevation:
Log	ged E	3y:	Scott	G. Er	nglert					Hole D	Diameter: 2"
Mon	itorin	g Ins	trum	ent(s)	: PI	D					•
1		Blows C	n Sam	oler]				Classification Of Material		
Depth (ft)	0	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35° c - coarse little - 10-20% trace - 0-10%	%	Remarks
24					1	11	N	dry	0.0-1.0 tan poorly sorted sand an	d sm.	
						40			gravel		
									_		
26											
											skipped sampling from 26-30' bgs
20					10	12	NI.	de			
30					1.2	12	N	dry	0.0-1.2 tan fine sand; trace coarse	e sand	-
						44			,		
22				<u> </u>	ļ						
32											
						-					
		-									
40				ļ	1.7	_	Y	de.			-
40				ļ ——	1./	8	T	dry	0.0.4.7	٠.	VOC
						11			0.0-1.7 white and tan poorly sorte	a	VOC sample:
42		·		<u></u>					sands and gravels		FLGP-15(41-42)
42						-					
		 	-		-						attempt to sample
											groundwater was
		-			-						unsuccessful; met
			-								refusal on hardpan 🕳
					<u> </u>	 					or gravel layer at
			—								42' bgs
											
l ——											
ļ——											
 							-				
 -		 		_							
-											!
		 									
	-	 									
											1
											_
L		L	L		L						

	M	3	Ta	st B	o mi m	, I	^~				Boring	No.: FLGP-16
											Sheet	
				mer L	AKA :	site R	1				Projec	t No.: 650-272
Clier	nt:	NYSE	DEC								Date: S	Start 1-9-98
Drille	er: '	Viron	ex_								F	inish 1-9-98
Orilli	ng M	etho	d : (Seopro	be 5	400					Total [Depth: 24'
				SW C			OAK	Bldg.			Depth	To Water: N/A
	dina										Surf. E	levation:
ogg	red B	y:	Scott	G. E	nglert						Hole D	iameter: 2"
				ent(s)								
			n Samp							Classification Of Material		
e				=.	_ ≤	# D	ک تو	9 =	f	- fine and - 35-50%		
=	.90	6"-12"	12"-18"	18"-24"	(£)	i i i i i i i i i i i i i i i i i i i	ain	star	m	- medium some - 20-35		Remarks
Depth (ft)	Ö	ð	12	<u>\$</u>	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	C	- coarse little - 10-20% trace - 0-10%		
0					2.6		N	dry	0.0-2.0	grass and black topsoil w		All samples
- -					1	1	· •	<u> ~''</u>	J.J-2.U	silty fill		collected with
						Ö			2026	brown silt and f. sand with	h	macro core (4 ft.)
						0			2.0-2.0		1	` '
4					 			 		some smmed. gravel		sampler
-												
4					2.9	0	Y	dry				
4					2.0	1.5		ury	0.0-1.1	f-m tan/lt. brown sand; so	me	VOC sample:
						0				sm. gravel		FLGP-16(7-8)
						17			1.1-2.0	greyish white silt and f. sa	and;	
						17				some sm. gravel		
8									20-29	f. sand and smmed. gra	vel	1
$\overline{}$					2.6	0.5	N	des	2.0 2.0	i. bana ana om men gra		
8					3.6	0.5	IV	dry	0.0-3.6	mix of tan, reddish brown	and	
									0.0-3.0	orange poorly sorted sand	l l	
						0.5 1.7					us	
10						1.7				and gravels		
12												
-					2.0	2	A I	de				
12					2.9	2	N	dry	0.0-2.9	mix of tan-orange poorly	sorted	
						0.7				sands and gravels		
						0.8						
						12						
16					<u> </u>							
					-		V	Al				
16					2	47	Y	dry	0.0-16	dark grey poorly sorted sa	ands	
						17			0.0 1.0	and sm. gravel		VOC sample:
						24			16-20	tan-orange fm. sand wit	h	FLGP-16(18-19)
						0			1.0-2.0	some sm. gravel	• •	. =0. (0(10-10)
20					-	 				Johns Jill. graver		
			ļ		22		N.I	ا مام				
20			L		2.3	0 =	N	dry			ما المانيين	
			ļ		-	0.5			0.0-2.3	poorly sorted mc. sand	with	
			<u></u>	<u> </u>	ļ	0				some sm. gravel		
					<u> </u>	1	ļ	ļ				
24					<u> </u>							
					ļ				ļ			
			1	l		1			1			

	M	S _	T	st B	:_	ا ہم					E	3oring	No.: FLGP-17	
	M	J	16	St B	Orin	ıg L	og				5	Sheet	1 of 1	
Proje	ect N	ame:	For	mer L	AKA	site R	1				F	rojec	t No.: 650-272	
Clier	nt:	NYSE	DEC										Sta <u>rt 1-9-98</u>	
		<u>Viron</u>											inish 1-9-98	
				<u> Seopro</u>									epth: 24'	
			on:	Lands	cape	<u>d are</u>	a @ v	west v	vall of DO.	AK Bldg.			To Water: N/A	
	<u>rdina</u>										5	Surf. E	levation:	
				G. E							<u> </u>	<u>łole D</u>	iameter: 2"	_
<u> Moni</u>	itorin	g Ins	trum	<u>ent(s)</u>	<u>: Pl</u>	D	1							_
	- 1	Blows C	n Samp	oler	1					Classification Of Ma		İ		
€	_	L.	m	₽-	يخ	Instrument Reading	å 28	를 눌	f -	in ic	nd - 35-50%			
Depth (ft)	 00	6"-12"	2"-18"	8"-24"	Recovery (ft)		Sample Retained	Moisture Content	1	16GIGITI	ome - 20-35% ttle - 10-20%		Remarks	
De l		Q	1 2	18	8	lnst Re	ကြီး	ĭĕŏ	C - 6	/uai ac	ace - 0-10%			
0					2.2		Y	dry	0.0-1.5	grass and black :	silty topsoi	ı	VOC sample:	\neg
						0			4	brown silt and f.		•	FLGP-17(3-4)	
						0			1	gravel; tr. clay			· ====================================	
	<u> </u>	l							1 '	gravor, u. olay				
4		 			 	 		<u> </u>						
•				<u></u>								I		
4					2.9		N	dry		-				
					=: <u>`</u>	0	· · · ·	,,		orange/brown - It	brown cla	ay		
						0			((moist)				
					 	1.8		ļ	1.2-2.9	orange-tan poorly	y sorted sa	ind		
8						1.0			i	and sm. gravel				
-						-				•				
.					3	-	N	dni						
8					<u> </u>	0	IN	dry	በበ-3በ •	nix of poorly sort	ed tan-ora	nge		
					-	0		ļ		• •		ii iye		
						0				sands and sm. gr	avei			
40						U								
12														
40					20		K I	، سام						
12					2.8		N	dry				-		
					 	0				poorly sorted tan-		own		
									9	and and gravel;	tr. clay	- 1		
						0.4				- '	-	ļ		
16												I		
4.0							h.1	لم	!					
16					1	_	N	dry						
						0			00-10	orown silty clay; t	r c sand			
						0			0.0-1.0 1	ZIOWII BIILY CICY, L	U. JUITU			
20					ļ									
							L.,							
20					1.5		Υ	dry						
						3.9								
						0			0.0-1.5	prown silt, poorly	sorted		VOC, Metal, CN	
						2			1	nvc. sand and			Samples :	
24											9 3.		FLGP-17(21-22)	
$\neg \uparrow$														
				****	T	Ι								1

	M	S	 	st B	:	ایما			Во	ring No.: FLGP-18
	Ш	J	16	St B	orir	ıg L	.og		She	eet 1 of 1
Proje	ect N	ame:	Foi	rmer L	AKA	site R	1		Pro	ject No.: 650-272
Clier		NYS								e: Start 1-9-98
Drille	er:	Viron	ex							Finish 1-9-98
		etho		Geopro	be 5	400			Tot	al Depth: 24'
Bori	ng Lo	ocatio	on:	Lands	cape	d are	a on	west:		oth To Water: N/A
Coor	rdina	tes:							Sur	f. Elevation:
Logo	ed E	By:	Scott	G. Er	nglert				Hol	e Diameter: 2"
Moni	torin	g Ins	trum	ent(s):	PI	D	_			
		Blows C	n Samp	oler		l	1		Classification Of Material	
Depth (ft)	.90	6"-12"	2"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20%	Remarks
						ĔŒ			trace - 0-10%	
0					2.6		N	dry	0.0-1.5 grass and dk. brown organic	
						0			topsoil with sandy and gravelly	/
						0		 	fill	
4						U		 	1.5-2.6 orange-brown silt and poorly	
-4								 	sorted sand and gravel	
4					2.6		N	dry		
-					2.0	0.5	14	<u> </u>	0.0-1.7 orange-brown poorly sorted	
						1		 	sand and medlg. gravel	
						0			1.7-2.6 tan-lt. brown f. sand with some	
8						-			sm. gravel	
8					2.5	4.5	Υ	dry	0.0-1.2 tan-lt, brown f. sand with some	VOC sample:
						1.2				1
						0.8			sm. gravel	FLGP-18(9-10
40						11			1.2-2.5 orange-brown poorly sorted	
12						13			sand and smmed. gravel	
12					2.3		N	dry		
12					۷.5	3.4	1.4	ui y		
				l		3.2			0.0-2.3 poorly sorted tan-reddish	
						2		L	brown sand and smmed.	
16									gravel; tr. lg. gravel	
16					2		N	dry		
						6.6				
						1.7			0.0-2.0 poorly sorted tan-brown sand	
						0			and sm. gravel (little med	
20									lg. gravel)	
20					2.4		Υ	dry		
						5.1				
						0			0.0-1.1 brown-orange mc. sand and	VOC sample:
						0			sm. gravel	FLGP-18(23-2
24									1.1-2.4 tan f. sand; tr mc. sand and	
	•		- 1					I	sm. gravel	

	MI		T	st B	!_	۱ ـــ				Borir	ng No.: FLGP-19
	М		Lie	St R	orin	g L	og			Shee	t 1 of 1
roje	ect N	ame:	For	mer L	AKA:	site R	1			Proje	ect No.: 650-272
Clien	nt:	NYSE	DEC							Date	: Start 1-9-98
<u> Drille</u>	er:	Viron	ex								Finish 1-9-98
<u> Drilli</u>	ng M	etho	d : (<u> Seopro</u>	<u>obe 5</u>	<u>400</u>				Total	Depth: 24'
<u> Borir</u>	ng Lo	catio	n:	Lands	cape	d area	a wes	st of D	OAK bldg.	Dept	h To Water: N/A
Coor	dina	tes:								Surf.	Elevation:
_ogg	ed E	ly:	Scott	G. Ei	nglert					Hole	Diameter: 2"
Moni	torin	g Ins	trum	ent(s)	: PI	D					
			n Samp						Classification Of Materia	1	
F	-		Ι.		_ح[و يا	a 70	يب نه	f - fine and -	35-50%	
Depth (ft)	o'' 6	6"-12"	2"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	in - median	- 20-35%	Remarks
e	Ó	ં	13	<u>\$</u>) & S	Rea	Sal	S S	C - Codise	10-20%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0			_		3	=	N			- 0-10%	
<u> </u>					3	0	IN.	dry	0.0-1.9 grass and black top		
					-	0			(organic silty f. sand	-	
					<u> </u>	_			1.9-3.0 silt and f. sand with	some sm.	
					 	0			gravel; tr. clay		
4					<u> </u>						
					 						
4					1.4		Υ	dry	0.0-0.5 orange-brown f. sar	nd; little	VOC sample:
					<u> </u>	0			smmed. gravel; tr.		FLGP-19(4-6)
						0			silt		10(40)
										little cilt	
8					<u> </u>				0.5-1.4 moist It. brown clay;	iitile Siit	
8					0						
									No Recovery - due to large	gravel (?)	
									· · ·		
12											
12					1.3		Υ	drv	0.0-0.2 medlg. qtz. gravel		
						7.1			0.0-0.2 medig. qiz. graver	d with	VOC service
					†	2.8			0.2-1.3 mostly fm. tan san		VOC sample:
									some c. sand and s	m mea .	FLGP-19(13-14)
16									gravel		
10											
16					2.1		N	dry			
10							- ' '	<u>~' J</u>	0.0-1.1 tan f. sand with zon	es of sm.	
						5			gravel; tr. mc. sand	Ė	
					-	0			1.1-2.1 c-vc sand and sm. g		
20			-		 	<u> </u>			little f-m sand and m		
20	**				<u> </u>				iitiic i-iii sang and ii	ica. graver	
								. بدایم			
20					2.6		Υ	dry			
			<u> </u>			3.5		ļ	0.0-2.6 tan-orange/brown p	-	
					<u> </u>	8.2			sand and smmed.	gravel	VOC sample:
						4					FLGP-19(22-24)
24								ļ			1
]	1		1						1
											1

	MK	3		-4 -					E	3oring	No.: FLGP-20
	M		le	st Be	orin	g L	og		S	Sheet	1 of 1
				mer L					F	Projec	t No.: 650-272
	nt:										Start 1-12-98
Drille		Viron									inish 1-12-98
Drilli	ng M	etho	d : (3eopro	be 5	400				Total [Depth: 24'
Bori	ng Lo	catio	on:	NW C	orner	of Do	DAK	Bldg.		<u>Depth</u>	To Water: N/A
	rdina										Elevation:
				G. Er					H	<u>lole D</u>	liameter: 2"
Mon				ent(s):	PI	<u> </u>		Τ			
		Blows C	n Samp	oler T		_			Classification Of Material and - 35-50%		
Depth (ft)	06"	6"-12"	12"-18"	18"-24"	Recovery (ff)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%		Remarks
0					3.1	705	Υ	dry	Refused at this point at a depth of		Refusal on sewe
						21			4'2"; collected sample at this point a	and	line (?)
						4.3			then resumed probing about 1' furth	ner	VOC, Metals, C
									north		sample:
4											FLGP-20(3-4)
_					1.7		N	day			
4					1.1	2.3	1.4	dry	0.0-1.7 mix of fm. brown sand and		
						1.9			sm. gravel; tr. medlg. grave	el	
						1.0			1		
8											
8					2.5		Υ	dry	0.0-2.5 poorly sorted lt. brown sand	ť	VOC sample:
						12			and gravel		FLGP-20(9-10)
						12					
						50					solvent odor but
12											no staining
40					<u> </u>		N	da			
12					2	57	IN	dry			
						70			sand and sm. gravel; tr. med	a	
						35			lg. gravel		
16											
, 0											
16					1.6		N	dry	0.046 ton become poorly contact com	nd	faint solvent odd
						30			0.0-1.6 tan-brown poorly sorted sar	iu	laint solvent odd
						16			and smmed. gravel		
								<u> </u>			
20											
					2.3		Υ	dry			
20					2.3	6		ury	0.0-2.3 tan-reddish brown poorly		VOC sample:
						11	L		sorted sands and sm. grave	al·	FLGP-20(23-24
		L	<u> </u>			, ,		_	little medlg. gravel	υ ι,	1 201-20(20-24
24									illie Hedig. graver		

	V	S	Te	st B	orin	na I	oa		·······	19-7411		ng No.: FLGP-21	}
											Shee		4
				rmer L	<u>AKA</u>	site R	.1					ect No.: 650-272	
Clie		NYSI									Date	: Start 1-12-98	4
				~		400					T-4-1	Finish 1-12-98	-
		<u>letho</u>		<u>Geopre</u>			N 1/ 1	- I al a-				Depth: 24'	
			on:	Alley	noπn	OT DC	JAK E	olag.				h To Water: N/A	
Coo					1							Elevation:	-
				G. E							Hole	Diameter: 2"	
Mon	_			ent(s)	: PI	<u> </u>	r	T	1				⊣ =
İ		Blows (on Samj	pler	-	_				Classification Of Material ine and - 35-	Eng/		
€	-	1 %	å	4	ery	E G	e g	e E	f -1				
Depth (ft)	 00	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	}	nedium some - 2 coarse little - 10-		Remarks	-
ద్ది	L			L		<u>₹</u> &	<u> </u>	≥ 0		trace - 0-	10%		
0					2.8		Υ	dry	0.0-0.7 a	asphalt and black san	d and	VOC sample:	1
						2			1	ravel fill		FLGP-21(3-4)	-
	Ī					2.8			,	prown silt and f. sand	aradina		
						2.5				nto orange f. sand wit			
4									I	•	II U .		-
T.	<u> </u>		1		1				,	gravel			
4	 				3		N	dry					İ
			 			0.7			0.0-0.6	prange f. sand with litt	e sm.		_
	 	-	ļ		 	1.2			S	ıravel			
		-				1.5			0.6-1.0	rey-dk. brown silty cla	y with		
-	-	-			<u> </u>	1.5			1	little f. sand	•		
8				ļ						poorly sorted orange-t	an sand		-
			ļ							•	an sand		
									č	ind smmed. gravel			
8					2.8		Υ	dry					-
						2.4				an-lt. brown poorly so		VOC sample:	
						0			s	and with little smme	d. gravel	FLGP-21(10-11)	
						0							_
12													
12					2		Ν	dry	00-20+	an-brown poorly sorte	d sand		
						1.4				ind sm. gravel; little m			
						0				•	cu.		
									g	ravel			
16													-
<u> </u>													
16		†			1.9		N	dry		an fm. sand with son			
		 			<u> </u>	0			s	and and sm. gravel; to	r. med		-
		 	-			0			le	g. gravel			
		 							•				
20		-			 	 							
20		-											1
-66		-			27	 	Υ	de	000-		التصميم امم		İ
20		<u> </u>		<u> </u>	2.7		Ţ	dry		range-tan poorly sort		1	
						0				ind smmed. gravel; li	ttle lg.	VOC sample:	-
				<u> </u>		0			g	ravel		FLGP-21(22-23)	
					<u></u>				•				
24													-
	······································												_

	M	S	Te	st B	orin	g L	og			Borin Sheet	g No.: FLGP-22
				mer L							ct No.: 650-272
Clier		NYSE		11101 L		JILG 11					Start 1-12-98
	er:										Finish 1-12-98
				Seopro	nhe 5	400					Depth: 24'
				Alley :			JAK	olda			To Water: N/A
	rdina		/11.	Alley	ioi tri	OI DC		Jug.			Elevation:
			Scott	G. Er	aclert	***************************************	····				Diameter: 2"
				ent(s)						TIOICI	Janieter. Z
111011		Blows O			- ' '		<u> </u>	I	Classification Of Material		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-1 m - medium some - 20 c - coarse little - 10- trace - 0-1	-35% 20%	Remarks
0					2.4		N	dry	0.0-1.5 asphalt and black silt a	nd sand	
-						0			fill		
						0		<u> </u>	1.5-2.4 orange-tan fm. sand	and sm	
						0			gravel; little med. grave		
4									grator, mao mod. grave	-	
4					2.7		Υ	dry	0.0-1.8 f-m tan/orange sand ar	nd sm	VOC sample:
						0			gravel; tr. c. sand and i		FLGP-22(5-6)
						0			1.8-2.1 silt and v. f. sand with s	-	1 201 -22(0-0)
									med. gravel and tr. clay		
8									•		
									2.1-2.7 orange poorly sorted so	anu anu	
									sm. gravel		
8					2.6		N	dry		***	
						0			0.0-1.6 tan-brown mc. sand v		
						0			some smmed. gravel;	little	
									large gravel		
12									1.6-2.6 tan fm. sand with som	e sm.	
								_1	gravel		
12					2.4	 _	N	dry			
						0			0.0-2.4 orange-brown poorly se	orted	
						0			sand and sm. gravel; se	ome	
42									medlg. gravel and nar	row	
16									zones of f. sand		
16					1.8		Y	dry			
16					1.0	0.2	'	<u> </u>	0.0-1.2 tan poorly sorted sand	and sm.	VOC sample:
						0.2			gravel; tr. med. gravel		FLGP-22(19-20
						<u> </u>			1.2-1.8 orange f. sand with tr. I	nc.	
20									sand		
20					2.3		N	dry			
						0		-	0.0-2.3 orange-tan fm. sand a	and sm.	
						0			gravel; little c. sand and		
									gravel		
24									giavoi		
											1

П	M	S	Te	st B	orin	na I	00			Boring No.: FLGP-23	_
	A.A.I	<u> </u>	16	שנים		y L	<u>.ug</u>			Sheet 1 of 1	
Proje	<u>ect N</u>	<u>lame:</u>	For	mer L	AKA :	site R	<u>: 1</u>			Project No.: 650-272	
Clier	<u>nt:</u>	NYSE	DEC_							Date: Start 1-12-98	1
Drille	er:	Viron	ex							Finish 1-12-98	
Drilli	ng N	<u>letho</u>	<u>d: (</u>	Geopro	<u>obe 5</u>	400				Total Depth: 24'	
Bori	ng L	ocatio	on:	Alley	north	of DO	DAK b	oldg.		Depth To Water: N/A	叮
Cool	<u>rdina</u>	ites:								Surf. Elevation:	
Logg	ged I	Зу:	Scott 8 4 1	G. Ei	nglert					Hole Diameter: 2"	Ĺ
Moni	itorii	ng Ins	trum	ent(s)	<u>: PI</u>	<u>D</u>					_'
		Blows C	n Sam	oler						Classification Of Material	
₽		١.	<u>.</u>	<u>.</u>	چ	ent 6	<u>8</u> @	e 논	f ·	fine and - 35-50%	
) L	0	6"-12"	2"-18"	18"-24"	Recovery (ft)	를 클	Sample Retained	Moisture Content		medium some - 20-35% Remarks	
Depth (ft)	0	Q.	2	&	&	Instrument Reading	S &	၌ၓ	C -	trace - 0-10%	İ
0					2.6		Υ	dry	0.0-2.0	asphalt and black/brown silt VOC sample:	1
		1			T	0	 	<u> </u>	1	and f. sand; little gravel FLGP-23(2-3)	•
						0			20-26	dk. grey silt and med. gravel	
		 				0			2.0-2.0	with orange poorly sorted sand	
4		1							1	with drange poorly softed sailu	•
4					2.5		N	dry			
						0			0.0-0.9	orange/brown poorly sorted	•
						0			_	sand and gravel	
									0.9-1.8	grey silt and some orange-	
8										brown f. sand; tr. clay	ļ,
									1.8-2.5	orange poorly sorted sand and	
									1	smmed. gravel	
8					2.6		N	dry			ŀ
						0			0.0-2.6	poorly sorted tan-orange sand	
						0				and smmed. gravel	
						0					١,
12											
12					2.8		N	dry	0.0-2.8	tan f. sand with some sm.	١,
						0				gravel and very c. sand; soil	
						0				coarsens downward through	
						0				sample (more gravel present)	
16										Sample (more graver process)	
					1, -		<u> </u>				
16					1.2	_	Y	dry	0012	tan mc. sand; little sm. gravel	
						0		<u> </u>	0.0-1.2	and f. sand VOC sample:	
igwdow					-	0				· · · · · · · · · · · · · · · · · · ·	
-		1			1				-	FLGP-23(18-19)	
20									-		
		_			22		K!	45.	-		
20		1			2.2	_	N	dry			
		 			_	0	1		0.0-2.2	tan-orange f. sand with some	
		-	<u> </u>		-	0	-			m. sand; little c. sand and sm	
		_	-						1	med. gravel; tr. lg. gravel	
24		-	-		-				1		
		+	-		\vdash		 		1		
		<u> </u>			Ь	<u> </u>	<u> </u>				_

	MK	2_	-	-4 -						Borin	g No.: FLGP-24
	M		les	st B	orın	g L	og			Shee	t 1 of 1
				mer L							ct No.: 650-272
		VYSE									Start 1-12-98
		Viron									Finish 1-12-98
		etho		3eopro	be 5	400				Total	Depth: 24'
							ner of	alley	north of DOAK bldg.		n To Water: N/A
	dina										Elevation:
Logg	ed B	y:	Scott	G. Er	nglert					Hole	Diameter: 2"
Moni	torin	g Ins	trume	ent(s)	: Pl	D					
	Ε	Blows O	n Samp	oler					Classification Of Materia	I	
Depth (ft)	0"-6"	6"-12"	12"-18"	8"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some	35-50% - 20-35% 10-20%	Remarks
å		· ·	+	-		<u>ਨ</u> ਨ	i	ΣO	trace	- 0-10%	
0					2.5		Υ	dry	0.0-0.7 asphalt with black sa	and and	VOC sample:
						0			gravel fill		FLGP-24(2-3)
						0			0.7-1.7 black organic soil wi	th plant	
									material		
4									1.7-2.5 brown silt with little s	sm. gravel	
									and plant material (r	oots)	
					~ -		A 1	al a		•	
4					3.5		N	dry	0.0-3.5 It. brown silt and cla	y with	
						0			some sm. gravel; tr.	-	
						0			and tree roots		
	-					0					
8											
0					2.9		N	dry	0.0-2.9 tan-orange poorly so	orted sand	
8					2.3	0	14	GI Y	and sm. gravel; little		
						0			gravel	s ac one 000 F	
						0			3		
12						-					
12					2.5		N	dry	0.0-2.5 tan-orange poorly so	orted sand	
						0			some med. qtz. grav		
						0			sm. gravel	wi, iitti	
						0			Sili. ylavel		
16											
16					1.5		N	dry	0.0-1.5 tan poorly sorted sa	nd: little	
						0		<u> </u>		nu, mue	
						0			smmed. gravel		
					ļ		<u> </u>	<u> </u>			
20					<u> </u>						
					2.5		Y	dry			
20					2.5	0	1	ury	0005 to a common positive	ortod candi	
					<u> </u>	0		 	0.0-2.5 tan-orange poorly s		VOC somele:
						 		 	some sm. gravel; litt	lie mea.	VOC sample:
24		<u> </u>	-		-	<u> </u>			gravel		FLGP-24(23-2
14		İ						 			1

	M	S	Te	st B	orin	ıa L	oa		Boring No.: FLGP-25	
									Sheet 1 of 1	
				rmer L	AKA	site R	<u> </u>		Project No.: 650-272	
Clier									Date: Start 1-12-98	\dashv^{T}
		Viror							Finish 1-12-98	_
				<u>Geopro</u>					Total Depth: 24'	
,		<u>ocati</u>	on:	Extre	me Si	E corr	ner of	alley	north of DOAK bldg. Depth To Water: N/A	
Cool	<u>rdina</u>	ates:							Surf. Elevation:	
Logg	ged l	By:	<u>Scott</u>	G. E	nglert				Hole Diameter: 2"	
Mon	<u>itorir</u>	<u>ng Ins</u>	trum	ent(s)	: PI	D				
		Blows C	n Sam	pler					Classification Of Material	
£		1 .	m	E-	چ	ent G	0 B	e z	f - fine and - 35-50%	
ŧ	90	6"-12"	12"-18"	8"-24"	8 €	原를	ain	istu	m - medium some - 20-35% Remarks	-
Depth (ft)	0	9	12	48	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	c - coarse little - 10-20% trace - 0-10%	-
0			<u> </u>		3.5	0	Y	dry		
<u> </u>	<u> </u>	 	 	 	1 0.5	0	<u>'</u>	417	1	`
 	 	-	 	<u> </u>		0			gravel fill sample:	
	 	-	ļ		<u> </u>		<u> </u>	<u> </u>	0.9-1.2 dk. brown fm. sand FLGP-25(3-4)	
	<u> </u>		-			0			1.2-2.7 brown-dk. brown silt and v.f.	
4									sand with plant material	-
			<u> </u>		-				2.7-3.5 tan-lt. brown fm. sand; tr. c.	
									sand and sm. gravel	
									Ganta and Ganta	-
4	<u> </u>				2.6		N	dry	0.0-2.0 orange-brown f. sand; some	
						0				
						0			m. sand; little sm. gravel	
						0			2.0-2.6 dk. grey silt with some med.	
8									gravel; little poorly sorted sand	
										_
8					2.8		N	dry		_
						0		· · · · · ·	0.0-2.8 tan-orange poorly sorted sands	
		-				0		***************************************	with some smmed. gravel	
						0			With some smmed. graver	-
12										
12		-	 							
40		-	<u> </u>		1.7		Y	de		-
12	ļ				1./		ī	dry	0.0-1.7 tan-orange poorly sorted sand	
		-	<u> </u>			0			with some sm. gravel; tr. med. VOC sample:	
			<u> </u>			0			sand FLGP-25(15-16)	
<u> </u>	******					0				
16		<u> </u>								
					بـِـا					
16					2.4		N	dry	0.0.3.4 tan paorly coded cand and	-
						0			0.0-2.4 tan poorly sorted sand and	
					<u> </u>	0			smmed. gravel	
						0				-
20										
20				1	2.5		Ν	dry		-
						0		-	0.0-0.4 tan f. sand; tr. med. sand	
		+			<u> </u>	0			0.4-2.5 tan-orange poorly sorted sand	
		1				0			T	
24		+			 	Ť			and sm. gravel	
		-								
ا			L	l	L			L		

	Ш		ı e	st B	OLIL	ıg L	og			Sheet	1 of 1
				rmer L							ct No.: 650-272
Clier		NYSE									Start 1-12-98
Drille		Viron									Finish 1-12-98
		etho		Geopro	be 5	400					Depth: 24'
							K blo	do all	ey (near E facing fire door)		To Water: N/A
	rdina						11 1211	<u>.g</u>	, (note a rating mount)		Elevation:
			Scott	G. Er	alert						Diameter: 2"
				ent(s)							
			n Sam						Classification Of Material		
æ			Γ.	_	حا	Ę 5		يـ ده ا	f - fine and - 35-50%)	
Depth (ft)	06"	6"-12"	2"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some - 20-35		Remarks
)eb	o.	ó	12	<u>6</u>	8	Rea	Sar	ΣÖ	c - coarse little - 10-20% trace - 0-10%		
0					3	=	N		0.0-0.3 asphalt and black sand a		
-					3	10	IN	dry	·	iiu	
						0	L		sm. gravel	nd f	
						0			0.3-2.6 black and dk. brown silt a		
1						0			sand; tr. med. gravel; son	ne	
4					-				plant material		
									2.6-3.0 tan f. sand and some sm.		
									gravel		
4				L	2.9		N	do			
4					2.5	0	IA	dry	0.0-2.9 tan-orange mc. sand an	d sm.	
						0			gravel; fines downward th		
						0			sample	-	
_						U			-		
8											
-					2.3		N	dry			
8					2.3	0	1.8	ury	0.0-0.6 mix of fm. sand and gre	v silt	
						0				, Jiil	
						0			with sm. gravel	cand:	
10						<u> </u>		<u> </u>	0.6-2.3 orange-tan poorly sorted	sanu,	
12									little sm. gravel		
40					2.3		Υ	dry			
12					2.3	0	1	ury			
						0		-	0.0-2.3 tan-orange mc. sand; so		VOC sample:
						0			f. sand; tr. smmed. grav	el	FLGP-26(12-1
16						J		<u> </u>			
10				<u></u>							
16					2.4		Y	dry			
10					<u></u>	6.3	'		0.0-2.4 tan fm. sand and gravel		
						0.0			-		VOC sample:
						0					FLGP-26(19-20
20											•
20											
20					1.8	-			0.0-1.8 orange-tan poorly sorted	sand	
20					1.0	0					
						8.7			with some smmed. grav	5 1	
			ļ		<u></u>	0.7					
24											
24								-			

	MC			. =						Boring	No.: FLGP-A
	MS	}	Tes	t Bo	ring	g Lc	g		-	Sheet	1 of 1
Proje	ect Na	me: L	AKA							Projec	t No.: 650 - 272
	nt: NY										Start 9/11/98
Drille	er: LM	S								F	inish 9/11/98
Drill	ina Me	ethod:	AMS	Probe						Total C	Depth: 20'
		cation				orner			**************************************		To Water:
	rdinat										levation:
		/: CJM	/ SGF	=							iameter: 2"
		Instr			-NU					L	
		Blows Or			T				Classification Of Material		
Depth (ft)	.9-,,0	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		f - fine and - 35-5 m - medium some - 20- c - coarse little - 10-2 trace - 0-1	-35% !0% 0%	Remarks
0					1.5	0		moist	09 Asphalt and subase, sand g		
									.9-1.5 Orange brown f-m sand posorted some quartz gravel	oorly	
4					3	0		moist	05 Lt. Brown silt and clay little g		
									.5-1.0 Orange f-m sand little c sa	ind	
									trace gravel (pea sized)		
									1-3.0 Tan Orange f-c sand poorly	/	
									sorted some quartz gravel		
8					3.3	0		moist		some	
				ļ	ļ			1	gravel		
 			<u> </u>	-	-			-			
12					3.3	0		 	0-3.3 SAA		
12	<u> </u>				3.3	-	 	moist	0 0.0 0,0 0		
 	-			 	 	ļ	<u> </u>	1			
<u> </u>							\vdash	1			
16	 				2.6	0		moist	0-2.6 Tan m-c sand some gravel	w/	
T					T			1	several small lenses of f sand		
]			
20					0.4	0		moist	04 Tan f-c sand poorly sorted s	ome	
					<u> </u>	<u> </u>		1	gravel		
<u> </u>		<u> </u>			-			1			
-					 			-			
24	ļ	_	ļ	 	-	<u> </u>		4			
_	}	<u> </u>	-		 			4			
	 	 	 	 	 	-	-	1			
			<u> </u>		+-	 	 	1			
+			 	<u> </u>	+-	 	 	1			
		 	 	-	+	-	 	1			
+	 	 			†		<u> </u>	1			
			 	1	†			1			
-				t			<u> </u>	1			
					†			1	ł 		
+					1	T^{-}		1			
	† ·	†		T	1			1			

	MS		T	. D.		. I -				Bor	ing No.: FLGP-B
	MC	7	Tes	I BC	oring	g LC	og			She	et 1 of 1
Proj	ect Na	me: L	AKA							Pro	ject No.: 650 - 272
Clie	nt: NY	SDEC								Date	e: Start 9/11/98
Drille	er: LM	S									Finish 9/11/98
Drill	ing Me	ethod:	AMS	Probe						Tota	al Depth: 20'
			: 8.4 V			VW c	orner			Dep	th To Water:
	rdinate			***************************************						Sur	f. Elevation:
Logg	ged By	/: CJM	/ SGE							Hole	e Diameter: 2"
Mon	itoring	Instr	ument	t(s): H	-NU						
		Blows Or	n Sample	er					Classification Of Mater	rial	
Depth (ft)	.9-,,0	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained		m - medium soi c - coarse littl	d - 35-50% me - 20-35% le - 10-20% ce - 0-10%	Remarks
0					1.6	0		moist	03 Asphalt and subase	·	
					1.0			1110101	.3-1.4 Tan Orange m-c san	d some	
					┼	 		l	1.4-1.6 Black Brown silt tra	ce gravel	
4					1.8	0	 	moist	08 Black Brown silt trace	_	
т					···	├	<u> </u>		.8-1.8 Tan Orange f-m sand	_	el
									_	_	
									0-1.7 Brown Orange f sand	some silt,	
8					1.7	0		moist	gravel trace decomposed w		
					1			1			
									04 Brown Orange m-c sar	nd and	
12					0.4	0		moist	gravel		
									0 1 5 Grov Prown fo cond	noorly	
					<u> </u>				0-1.5 Grey Brown f-c sand	poorty	2 5 blook atained
16					2	233	Х	moist	sorted little gravel 1.5-2.0 Tan f-c sand little g	ıravel	.35 black stained soil w/ sewage
						17			1.0 2.0 Pari o Gario intio y	,, 4 0 1	odor
						9 20	 	{	0-2.2 Tan m-c sand some g	gravel	FLGP-B (16-20)
20					2.2	8		moist		-	1255 9/11/98
20						2		1,,,,,,,,,			
						4		İ			
						3		1			
24											
								1			
								1			
			<u> </u>		<u> </u>		<u> </u>	-			
	ļ				 	-		1			
		_			-		 	-			
				1	 	 		1			
		<u> </u>			1		 	-			
					1	 		1			
		 		\vdash		 		1			
		1	 	1	†		1	1			

	M	Q _			•					Boring	No.: FLGP-A
				st Be						Sheet	
				mer L	AKA s	ite R					t No.: 650-272
Clier		NYSE	EC							ļ	Start 9-30-98
Drille	er:	LMS								F	inish 9-30-98
				MS Po						Total [Depth: 24'
Bori	ng Lo	ocatio	n:	East s	ide of	f Kink	el St.	in fro	nt of DOAK west entrance	Depth	To Water: N/A
Coo	rdina	tes:	9.5'V	V x 9.5	'S of	NW c	ornei	r of ble	dg.	Surf. E	levation:
Logo	ged E	By: 3	Scott	G. En	glert					Hole D	lameter: 2"
Mon	itorir	ıg Ins	trum	ent(s)	: PI	D					
	E	Blows C	n Sam	pler					Classification Of Material		
£			<u></u>	<u>.</u>	_ ≨	ent 3g	9 P	2 =	f - fine and - 35-50%		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	agi di	Sample Retained	Moisture Content	m - medium some - 20-35		Remarks
De	°	9	12	8	æ	Instrument Reading	S &	§ပိ	c - coarse trace - 0-10%		1
0					1.9	0	N	dry	asphalt and sub-base		
						0			black and grey concrete fill (?)		
						0					1
						0					-
4											
											1
4					2	1	N	moist	moist clayey silt and poorly sorted		440
						0			sand and gravel intervals		
						0					ı
						0					***
8											
											•
8					1.4	0	7	moist	moist dark brown clayey loam		-
						0					
						0					
						0					T
12											
12					1.1	7	Ν	moist	tan-orange/brown poorly sorted sar	ids	٣
						5			and small gravel	ļ	
		<u> </u>				5					
16											l
		ļ							tan-orange poorly sorted sands and	, [<u> </u>
16					2.5	14	N	moist	small gravel	•	Γ
				<u> </u>		5			oman gravor	į	ı
					ļ	3					•
						25					Γ
20								_		ļ	1
-				<u> </u>	-	<u> </u>	N /	-	tan poorly sorted sands and small	į	•
20					2.6	8	N	moist	gravel with little med. gravel	İ	
					ļ	4		<u> </u>	J		,
						1				ļ	yar
		<u> </u>			ļ	12				ļ	
24		ļ		<u> </u>				<u> </u>		į	·
		<u> </u>			 			 			*
						 		 			
		l	l	1	I						

	MG			st Bo						Borin	g No.: FLGP-B
	MIS)	l e	st Bo	orin	g L	og			Sheet	t 1 of 1
Proj	ect Na	ame:	For	mer L/	4KA s	ite RI				Proje	ct No.: 650-272
Clie	nt: N	IYSE	DEC							Date:	Start 9-30-98
Drille	er: L	MS									Finish 9-30-98
Drill	na M	etho	d: A	MS Po	wer F	Probe				Total	Depth: 28'
								in fro	nt of DOAK west entrance		To Water: N/A
				V x 8.0							Elevation:
				G. En							Diameter: 2"
				ent(s)		D	-		W-4450	1	
			n Sam	<u>`</u> _	T	<u> </u>	Π	T	Classification Of Material		
£			T	T		₹ 5	, 5		OF FOO	6	
t)	, 0,e	6"-12"	12"-18"	18"-24"	€ (£	ding	a de la	stur	m - medium some - 20-3		Remarks
Depth (ft)	0	6.	12	18,	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	c - coarse little - 10-209 trace - 0-109		
0			 	 	2	N/A		dry			
					 _	11/7	"	1 417	sandy clay and silty loam		
					 			t	brown-dark brown sand and clayey	/	
									silt (fill?)	•	
4											
-									1		
4					0.9	0	N	moist	brown clayey sand and silt with littl	е	
			İ			0			small gravel (fill ?)		
8											
											1.
8					0.9	1	N	moist	brown moist clayey silt with some		does not appear
						0			small gravel; trace sand (fill ?)		to be native
						0					material
12				ļ							
								<u> </u>	dark stained poorly sorted sand wi	th	poor recovery bu
12					0.3	2	N	moist	some gravel; may be wash (?)	C1 1	black sludge
				ļ		0			gravor, may be wash (:)		coating liner
						0	**********				3
16				<u> </u>							
10			<u> </u>					 			
16			 		3	420	Y	moist	dark brown stained poorly sorted s	and	VOC sample
10			 			50			and gravel; sludge evident in top 0	.5'	MS/MSD

20											
]		
20					1.7	23	N	moist	tan-orange poorly sorted sands an	a	
						12			qtz. gravel		
•						75					
24											
									ton aronge poorly corted cond and	1	
24					2.7	7	N	moist	tan-orange poorly sorted sand and	ا ما	
						6			small qtz. gravel; some med. gravel	5 1	
						4			trace large gravel		
28						6					

APPENDIX B
BORING/WELL LOGS AND WATER LEVEL DATA

	M	S	т_	st B	_rin	a I	^~		Boring No.: FLMW-2	02
									Sheet 1 of 2	
				rmer L	<u>AKA</u>	site R	<u>:1 </u>		Project No.: 650-272	
Clie		<u>NYSI</u>							Date: Start 1-19-98	
Drille				and F					Finish 1-21-98	
				<u>1.25" l</u>					Total Depth: 121.25'	
			on:	Alley	<u>North</u>	of Do	<u>DAK</u>	Bldg.	(62 Kinkel St.) Depth To Water: 54.3	
	<u>rdina</u>					***************************************			Surf. Elevation: 123.	25
				G. E					Hole Diameter: 8"	
Mon	7			ent(s)	: PI	<u>υ</u>	1	1	Classification Of Material	
_	-	Blows	n Sam	pier	-	=	_		f - fine and - 35-50%	
Ę.	ئ و	7	18	24"	ver)	mer	ined in	ture	some - 20-35%	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	c - coarse little - 10-20%	
		6		<u> </u>					trace - 0-10%	
60	27	for 2	′		2.1	N/A	N	wet	0.0-0.6 wash No split spoon	
		<u> </u>	-		+			1	0.6-1.6 tan f. sand; little m. sand samples taken	
		_		 	+			1	1.6-1.7 Fe stained f. sand from surface to	
		<u> </u>		_	 		 	-	1.7-1.9 greenish grey clay and f. sand due to proximit	-
			<u> </u>		 		<u> </u>	1	1.9-2.1 tan f. sand; tr. m. sand FLMW-202B to)
				-	 			1	MW-202 (well	
65	12	15	21	23	1.9	0	N	wet	0.0-0.6 wash previously insta	all
-55	14	, ,			 				0.6-1.9 orange m. sand; little silt and logged)	
			<u> </u>	1				1		
70	18	24	21	15	2	0	N	wet	0.0-0.8 wash	
								1	0.8-1.3 brown, tan, orange and white	
]	f. sand with little silt and tr. clay	
									1,3-2.1 grey clay with little f. sand and	
									silt	
75	16	21	23	28	2	0	N	wet	0.0-0.5 wash	
									0.5-2.0 multicolored thin (1-5 mm)	
]									bands of f. sand (orange, tan,	
									brown, white and purple)	
		66					k i			
80	24	30	26	21	1.5	0	N	wet	0.0-0.4 wash	
					-				0.4-1.5 very thin multicolored (red,	
									white, tan and brown) bands of	
					 				f. sand; tr. silt	
85	12	8	7	14	2	ō	N	wet	0.0-1.0 wash lacks fine color	
	1 4		•	• •					1.0-1.6 well sorted pink f. sand with banding seen i	n I
									little silt and 80 ft. samp	
			-						1.6-2.0 orange well sorted f. sand	
90	15	18	19	22	2	0	N	wet	0.0-1.3 wash	
									1.3-1.7 tan-brown f. sand; little multi-	
									colored bands of silt	
									1.7-2.0 interbedded orange-red f. sand	
									and white-grey silty clay	
									and winte-grey sitty day	

	MK	3	-	st B						Boring No.: FLMW-202B
	M		l e	St B	orin	g L	og			Sheet 2 of 2
Proje	ect N	ame:	For	mer L	AKA:	site R	1			Project No.: 650-272
Clier	nt:	NYSE	EC							Date: Start 1-14-98
				and F						Finish 1-16-98
				.25"						Total Depth:121.25'
			n:	Alley	North	of DO	DAK I	Bldg.	(62 Kinke	
	<u>rdina</u>									Surf. Elevation: 123.25'
				G. Er						Hole Diameter: 8"
Mon				ent(s)	: PI	<u> </u>	ı———			and the same of the same and the same of t
		Blows O	n Samp	oler	-				l	Classification Of Material
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m	- fine and - 35-50% - medium some - 20-35% - coarse little - 10-20% - trace - 0-10%
95	25	20	30	31	2	N/A	N	wet	0.0-0.3	
						`		1		multicolored (brown,
		-						1	2.0 2.0	white, purple) larger bands of
			-					1		f. sand, little silt and tr. clay
						_		1		i, saira, indo sile arra at silay
100	32	27	25	35	2	0	2	wet	0.0-0.6	wash
										thin bands of red, grey, purple
									0.0-2.0	, , , ,
								}		and orange silt, very f. sand
										and f. sand; tr. clay
105	18	23	31	28	1.6	0	N	wet	0.0-0.5	ı
									0.5-1.6	bands of red, purple and brown
										well sorted f. and very f. sand;
										tr. silt
110	36	41	35	38	1.9	0	N	wet	0.0-1.4	wash
									1.4-1.6	Fe stained and cemented f.
										sand; some Fe nodules
									1.6-1.9	tan-grey f. sand with little silt
									1.2 1.0	and gray is desired that it is a second
115	24	19	26	22	2	N/A	N	wet	0.0-1.5	wash
										Fe stained f. sand with little silt
				-					1.5~2.0	to staniou i, sand with little sit
400		-10	-0.1						0.0-0.8	wash
120	27	19	31	42	2	0	N	wet		4
									0.0-1.4	grey, greenish-grey and It.
									4 4 0 0	brown silt and f. sand; tr. clay
 									1.4-2.0	orange f. sand; little Fe staining
										tr. silt
					ļi					
 					ļ					
								L		

	M	2	 	-					Borin	g No.: FLMW-204
	M	9	le	st B	orin	g L	og		Shee	t 1 of 3
Proi	ect N	ame:	For	mer L	AKA:	site R	1		Proie	ct No.: 650-272
Clier		NYSE								Start 1-23-98
Drille				and F	ump					Finish 1-26-98
				1.25"		low S	tem /	Auger		Depth: 109.51'
										1 To Water: 53.60
	rdina			- <u>-</u>						Elevation: 122.9
		_	Scott	G. Er	nglert					Diameter: 8"
				ent(s)		D/O	<u>VA</u> (F	FID)		
			n Sam						Classification Of Material	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	Remarks
0				_					Gravel and loamy soil	some oil/grease
									_	staining of grav
									0.0-0.6 wash	and surface of
5	6	10	68	5	1.6	0	N	dry	0.6-1.6 tan-orange poorly sorted sand	soil
									and sm. gravel	
									5 ·	
									0.0-0.4 wash	
10	20	18	32	27	1.4	0	N	dry	0.4-0.6 tan f-m sand	
									0.6-0.7 grey silty clay with Fe staining	
									0.7-1.4 tan-orange poorly sorted sand	
									and smmed. qtz. gravel	
									0.0.0.0	
15	35	28	22	31	1.2	0	N	dry		
								ļ	0.2-1.2 tan-orange c. sand and med	
									lg. qtz. gravel; some Fe	
									cementation of sand grains	
	40	04	07	04	1 1	NI/A	N.I	. ــ اـــ		
20	18	21	27	31	1.4	N/A	N	dry	0.0-1.4 wash only	
<u> </u>	40	40	40	24	4.0	NI/A	K.I	. سام		
25	16	12	18	21	1.3	N/A	N	dry	0.0-0.1 wash	
									0.1-0.5 tan f. sand	PID stopped
									0.5-1.3 tan-orange poorly sorted sands	working due to
								-	and smmed. gravel	moisture; OVA
30	28	17	31	24	na	N/A	N	dry	_	won't light
30	20	17	31	<u> </u>	0.8	14/7	IN	ui y	0.0-0.2 wash	
									0.2-0.9 tan f. sand and sm. gravel	
								1		
40	15	21	27	30	1.1	N/A	N	dry		
70	10				 ' ' '	14//	_ · •	u, y	0.0-0.1 wash	
								}		
					-			1	0.1-1.1 tan-orange f-m sand; some	
50	27	18	21	30	1 4	N/A	N	dry	smmed. gravel	
50	۷1	10	<u> </u>	30	'· -	17/7	"	"' "		
								1	0.0-1.4 tan-orange/brown poorly sorted	
								1	sand with some silt and little	
								1	sm. gravel	

	M	S	Te	st B	orin	a I	OCI					`	No.: FLMW-204B
												Sheet	
				mer L	AKA	site R	<u> </u>						t No.: 650-272
Clie		NYSE					····						Start 1-23-98
<u>Drill</u>				and F									inish 1-26-98
Drill	ng M	etho	d: 4	1.25"	D Hol	low S	tem A	\uger				Total I	Depth: 109.51'
									Street				To Water: 53.60'
	rdina							***************************************					levation: 122.96'
			Scott	G. Er	nalart								iameter: 8"
						VA (F	ID/					HOIC L	Manieter. 0
MOU				ent(s)	. 	VAIF	(0)	I		Olana (Gardina /	76 Martin (
	k	Slows C	n Samp	oler	-					Classification (
£	١.	ă,	l &o	-4	ery	E 50	e 26	일달	1	- fine	and - 35-50% some - 20-35%	4	
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	8 €	F	Sample Retained	Moisture Content	i	medium	little - 10-20%	U	Remarks
De.	0	O	12	P 20	Recovery (ft)	Instrument Reading	Se Si	g ပိ	C -	coarse	trace - 0-10%		
55	15	18	21	19	1.6	N/A	N	wet	0.0-1.6	wash only	,, 450 5-10 N		End sampling on
<u> </u>	13	10	21	13	1.0	11/7	1.4	***	0.0-1.0	wasii Oiliy			
													1-23-98
									0.0-0.4	wash			
60	25	30	18	21	1	12	N	wet	0.4-0.6	tan f. sand			
										orange silty f.	sand		Resume sampling
									0.0-1.0	orange silty i.	Janu		. •
													on 1-26-98
65	15	15	21	14	2	10	N	wet	0.0-1.1	wash			OVA working now
00	10	10	<u> </u>	14	 	10	IN	MAGE	1.1-2.0	tan-lt. orange	silty f. sand		
										3-	.		
									0000	aak aak:			
70	27	31	25	32	2	N/A	N	wet	0.0-2.0	wash only			
75	23	28	31	41	2	N/A	N	wet	0.0-2.0	wash only			
10	23	20	J 1	71		11//	-13	7701					
													Hala bailed bafe
													Hole bailed before
													sampling
80	15	17	21	15	2	3.5	N	wet	0.0-1.0	wash			(running sands)
				-					1.0-2 0	pink, red, pur	ple and tan h	ands	,
										(10-20mm thi			Hole bailed before
										•	on, or sill and	very	
								l		f. sand			sampling
85	21	30	25	28	2	2	N	wet					
00	21	JU	23	20			IN	AAGI	0.0-1.8	wash			
								Ì	1.8-2.0	pink silt and v	erv f. sand		
										port with with t	j 1. Juniu		
90	23	35	18	27	2	0	N	wet	0000	ale e-l.			
									0.0-2.0	wash only			
													li de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
													Hole bailed before
ΩE	40	20	23	22	2	0	N	wet	0.0-1.0	wash			sampling
95	19	28	23	22		U	IN	wei			ا ا ا ا ا	امسامسا	Jamping
									1.0-2.0	many thin mu		-	
										orange, tan a	nd brown) ba	nds	
										of silt and ver	•		
		***************************************		-						_,,	, wantan an a		
100	25	31	35	26	2	0	N	wet					
100	23	31	33	20			14	WEL	0.0-1.0	wash			Banding less
									1.0-2.0	pink, peach, t	an and brow	า	prominent than in
		,								bands of silt a			95 ft. sample
												-1110	TO It. Gairipio
										mica			

	M	S	Ta	st B	ori-	I	~~				3 No.: FLMW-204
	Ш		Lie	St D	OTIN	ıy L	og			Sheet	3 of 3
				mer L							t No.: 650-272
Clier	nt:	NYSE	DEC							Date:	Start 1-23-98
				and F			,				inish 1-26-98
				1.25" II							Depth: 109.51'
<u>Borii</u>	ng Lo	catio	on:	Alley \	<u>West</u>	of 71	Sylv	<u>ester</u>	Street		To Water: 53.60
	<u>'dina</u>										Elevation: 122.96
				G. Er			-			Hole D	iameter: 8"
Moni				ent(s)	<u>: 0</u>	VA (F	ID)			····	<u> </u>
	E	Blows C	n Samp	oler	-				Classification Of Material		
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%	6	Remarks
105	23	31	35	29	2	0	N	wet	0.0-1.0 wash		
]	1.0-2.0 pink, yellow, tan and white)	
									bands of silty f. sand; little	Fe	
									staining		
446		~~					N.I	=			
110	23	25	30	28	2	0	N	wet	0.0-0.4 wash		
									0.4-1.8 narrow tan, white, brown a	nd	
									yellow bands of silt, f. sand	d and	
									some silty clay		
									1.8-2.0 tan-orange m. sand; little s	silt	
									-		
7											
							,				
-+											
-+											
+											

	M.	S	Tes	st B	orin	a L	oa		Boring No.: FLMW-205B
									Sheet 1 of 2
				mer L	AKA :	site K			Project No.: 650-272
	<u>nt: </u>				\				Date: Start 1-28-98
Drille				and F			1 4		Finish 1-29-98
				1.25"					
			on:	Kinkel	St. R	ight o	f Wa	<u>y (We</u>	est side of street) Depth To Water: 53.00'
	<u>rdina</u>								Surf. Elevation: 122.12'
				G. E					Hole Diameter: 8"
<u>Mon</u>	<u>itorin</u>	g Ins	trum	ent(s)	<u>: 0</u> \	VA_	_		
		3lows C	n Samp	oler					Classification Of Material
æ.		<u>.</u>	- in	L.	چ	en to	a B	8 ¥	f - fine and - 35-50%
ŧ	φ	6"-12"	2"-18"	18"-24"	8 €	F 5	를 를	str	m - medium some - 20-35% Remarks
Depth (ft)	ō	6	12	₩	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	c - coarse little - 10-20% trace - 0-10%
0		-			 	=	 	-	Grass and silty organic top soil
	 	 						1	Crass and sitty organic top soil
5	5	8	10	14	1	0	N	dn	0.000
<u> </u>	<u> </u>	0	10	14	 	<u> </u>	14	dry	0.0 0.2
 -		ļ							0.2-1.0 orange-brown poorly sorted
					<u> </u>				sands and qtz. gravel
									0.0-0.2 wash
10	15	21	19	18	1.2	0	N	dry	0.2-1.2 orange-tan f. sand; little mc.
									1
									sand; tr. sm. gravel
15	14	16	11	14	1.2	0	N	dry	0.0-1.2 orange-brown fm. sand;
· · ·									some c. sand and sm. gravel
			 						tr. silt and med. gravel
***************************************									3
20	11	17	21	20	1.3	0	N	dry	0.0-0.5 wash
20	1 1	' '	21	20	1.5		14	us y	
									0.5-1.3 fm. orange (Fe stained) sand
			ļ						little c. sand and qtz. gravel
			<u> </u>						
30	8	12	14	19	1.2	0	Z	dry	0.0-0.2 wash
									0.2-1.2 tan f. sand with some mc.
									sand, sm. and med. gravel
									Sand, Sin. and med. glaver
40	17	15	14	20	1.3	0	Ν	dry	0.007
									0.0-0.7 wash
									0.7-1.3 orange-tan fm. sand
									some c. sand, tr. med. gravel
·····									little sm. gravel
50	12	11	10	11	1.2	0	N	dry	
30	12	<u> </u>	10	' '	1.4		14	u.y	0.0-0.6 wash
			ļ		 				1 ***
			<u> </u>		-				0.6-1.2 orange f. sand and silt
		4-	4		1 -		h !		tr. f. white micaceous sand
60	17	12	11	17	1.3	0	N	wet	
									0.0-0.4 wash
									0.4-0.7 tan fm. sand with bands of
									orange silty f. sand
									0.7-1.3 brown-orange silty f. sand

	M:	S	Tes	st B	orin	g L	oa			-	ng No.: FLMW-205 et 2 of 2
				mer L	AKA S	site K	<u> </u>				ect No.: 650-272
Clier		NYSE			· · · · · · ·					Date	: Start 1-28-98
				and F		C	.	\ -		T./	Finish 1-29-98
				1.25" II					not side of chast'		I Depth: 110.92'
			on:	r\i⊓ke)(. h	agnt (אין וכ	ay (VV	est side of street)		th To Water: 53.00
Coor		-	800#	G. Er	alor						. Elevation: 122.12 Diameter: 8"
				ent(s)						Inole	Diameter. 0
IN OIL			n Samp		<u> </u>				Classification Of Materia	l	
ا ۾			T '		_	t	40.75	0 +		35-50%	
Depth (ft)	 	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	m - medium some c - coarse little -	- 20-35% 10-20% - 0-10%	Remarks
65	21	30	12	16	1.5	0	N	wet	0.0-0.8 wash		
									0.8-1.7 bands of tan f. sand	, pink silty	
									f. sand and orange s	silty f. sand	·
								ļ	little mica in sand		
								ĺ			
-,	40	A A	4.4	45			N.I	,,,,,,	0.0-0.5 wash		
70	18	11	14	15	2	0	N	wet	0.5-2.0 many bands (5-10m	m thick) of	
							***		grey and pink silty cl	lay and clay	/
									with little Fe stained	-	
									bands		
75	17	21	25	15	1.7	0	N	wet	0.0-0.2 wash		
,,,	- ' /	<u> '</u>			,		• •		0.2-1.7 orange, pink and gre	ey bands of	Less sand than
		_							silty clay and clay		previous sample
-						-					
80	15	20	25	19	2	0	N	wet	0.0-2.0 wash only		
90	20	25	30	29	1.9	0	N	wet	0.0-0.4 wash		
									0.4-1.9 pink, yellow and tan	bands of	
									silt and very f. sand;		
									one area vory i. buria,	oiay	
									0,0-0.6 wash		
100	18	27	14	18	1.6	0	N	wet	0.6-1.6 fm. orange / tan sa	ind with	
									some mica		
									Some milea		
440		- 0.4	- 24	40		_	NI	14/04	0.0-0.5 wash		
110	20	21	24	19	2	0	N	wet	0.5-1.1 tan and Fe stained f	sand and	
								}	silt with some fine st		
								1	grey clay	9013 01	
								1	1.1-2.0 tan well sorted f. sar	nd	
					<u> </u>			1	1. 1-2.0 tall well softed it saf	IU	
				 				1			
								1			
								1			
				 			-	1			
								1			

LMS Test B			~			E	3oring l	No.: FLMW-206B	
LIVIC Test B	oring	LO	9			S	Sheet 1 of 4		
Project Name: Former I	AKA sit	e RI_				F	Project	No.: 650-272	
Client: NYSDEC		Date: St	art 1-19-98						
Driller: Delta Well and	² ump						Fir	nish 1-21-98	
Drilling Method: 4.25"	T	Total Depth: 110.49'							
Boring Location: 54 Ki	nkel Stre	eet Pa	irking	Lo	t		Depth To Water: 53.00'		
Coordinates:						S	Surf. Elevation: 122.13'		
Logged By: Scott G. E	nglert					 	Hole Diameter: 8"		
Monitoring Instrument(s	: PID								
Blows On Sampler					Classification Of Mate	erial			
0"-6" 6"-12" 12"-18"	Recovery (ft)	Reading	Retained Moisture	Content	m - medium sor	d - 35-50% me - 20-35% e - 10-20% ce - 0-10%		Remarks	
0					Asphalt				

Mon	itorin	ig Ins	trum	<u>ent(s)</u>	<u>: Pl</u>	D			
		Blows C	n Sam	oler					Classification Of Material
Depth (ft)	0	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	f - fine and - 35-50% m - medium some - 20-35% c - coarse little - 10-20% trace - 0-10%
0									Asphalt
5	6	10	12	12	1.2	0	N	dry	0.4-1.2 tan - It. brown poorly sorted with 140 lb. sands and gravel hammer for first
10	10	15	22	40	1.2	0	N	dry	0.0-0.2 wash 0.2-1.2 tan - It. brown poorly sorted sand and sm. gravel; tr. med. gravel
15	10	25	24	20	1.3	0	N	dry	0.0-0.2 wash 0.2-1.3 tan - orange/brown poorly sorted sand and sm. gravel; little med. gravel
20	16	19	22	27	1.1	0.3	N	dry	
20	10	19	22		1.1	0.5	14	uly	0.0-0.2 wash 0.2-1.1 mostly tan poorly sorted sands and smmed. gravel; little Fe
25	15	18	22	28	1.5	0.5	N	dry	staining 0.0-0.2 wash Split spoon driven
									0.2-1.5 orange/tan fm. sand; some c. sand and sm. gravel with 175 lb. hammer for all
30	25	27	30	35	1.3	0.3	N	dry	0.0-0.4 wash 0.4-1.3 mostly white-tan f. sand; little
									mc. sand and sm. gravel
35	14	20	25	28	1.3	0	N	dry	0.0-0.6 tan-lt. brown poorly sorted sand and sm. gravel
									0.6-1.0 brown silt and very f. sand with some clay 1.0-1.3 white, tan, orange and red f.
								_	sand w/mica (5-10 mm bands)

	M.	S	Te	st B	orin	a I	.oa		Boring No.: FLMW-20
									Sheet 2 of 4
				mer L	AKA :	site R	<u> </u>		Project No.: 650-272
		NYSE							Date: Start 1-19-98
				and P					Finish 1-21-98
				.25" II					Total Depth: 110.49'
			on:	<u>54 Kin</u>	kel St	reet	Parki	ng Lot	
	<u>rdina</u>								Surf. Elevation: 122.1
				G. Er					Hole Diameter: 8"
Mon				ent(s)	: PI	<u>D</u>	Т		T
i		Blows C	n Sam	oler	4	l_			Classification Of Material and - 35-50%
€	70	12	₫	4	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	some - 20-35%
Depth (ft)	0	6"-12"	12"-18"	18"-24"	(£)	trur	etair	oist	m - medium Some - 20-00 % Remarks
					L				trace - 0-10%
40	26	30	35	37	1.3	0	N	dry	0.0-0.4 wash
									0.4-0.7 orange-brown mc. sand:
								1	little sm. gravel
								1	0.7-1.3 tan-orange poorly sorted sand
								1	and medlg. qtz. gravel
			 		ļ			4	
		15	L		_		<u> </u>	↓ .	0.0-0.3 wash
45	17	19	22	18	1.4	0	N	dry	0.3-1.0 white, tan, orange and dull red
		ļ			<u> </u>			-	silty f. sand
					<u> </u>			1	1.0-1.1 grey silty clay
					<u> </u>			ļ	1.1-1.4 white-tan f. sand
									1, 1-1.4 Willic-tall I, Sallu
					_		<u> </u>		0 0 0 0 0 0000
50	21	14	23	19	1.4	0	N	dry	0.0-0.2 wash
									0.2-1.4 well sorted white-tan f. sand;
									tr. Fe staining
	-40	44	40	40	-		B.1		
55	12	11	16	10	1	0	N	wet	0.0-1.0 interbedded pink-orange silty
									f. sands and lt. grey clay
	-40	45		44	- 4		K.I	المسير	
60	13	15	8	11	1.4	0	N	wet	0.0-0.3 wash
					 				0.3-1.4 orange,tan and red f. sands
					 				and some silt; tr. stringers of
					\vdash				grey clay
65	17	11	14	15	2	0	N	wet	0.0-0.6 wash
00	17	1	14	13	-2	<u> </u>	IN	wet	0.6-2.0 pink, red, orange and tan silty
					 -				f. sand
							-		1. Garra
70	15	20	18	16	2	0	N	moist	0.0-0.8 wash
, 0	13	_20	,0	10			14	1110101	0.8-1.7 brown, orange, pink and tan
									· · · · · · · · · · · · · · · · · · ·
					 				interbedded silts and silty f.
					-		-		sand; some small Fe nodules
					 			İ	and cementation of sand grains
					 				1.7-2.0 pinkish-reddish grey silty clay
	- 1							Į į	

LMS Test Boring Log	Boring No.: FLMW-206B				
Test Boring Log	Sheet 3 of 4				
Project Name: Former LAKA site RI	Project No.: 650-272				
Client: NYSDEC	Date: Start 1-19-98				
Driller: Delta Well and Pump	Finish 1-21-98				
Drilling Method: 4.25" ID Hollow Stem Auger	Total Depth: 110.49'				
Boring Location: 54 Kinkel Street Parking Lot	Depth To Water: 53.00'				
Coordinates:	Surf. Elevation: 122.13'				
Logged By: Scott G. Englert	Hole Diameter: 8"				
Manitarina Instrument(s): DID	-				

				G. Er					Hole Diameter: 8"
Moni	torin	<u>g Ins</u>	trum	ent(s)	: PI	D	,		
Depth (ft)	.g0	6"-12" Swolg	n Samp	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	Classification Of Material f - fine
75	15	14	17	17	2	0	N	wet	0.0-1.0 wash
									1.0-2.0 tan, white and pink silty f. sand with little clay; little very thin stringers of grey clay
80	14	21	15	24	1.7	0	N	wet	f. sand
									0.9-1.7 pink, tan and lt. brown f. sand; tr. silt
85	17	15	21	19	2	0	N	wet	0.0-1.2 wash 1.2-1.4 pink silt and f. sand 1.4-1.8 white-tan and orange f. sand; tr. silt 1.8-2.0 brown f. sand and little silt
90	15	27	19	21	2	0	N	wet	0.0-1.1 wash 1.1-2.0 pink, purple, yellow, tan and orange bands (10-20 mm thick) of silty very f. sand and very thin stringers of grey clay Stopped sampling 1-19-98
95					1.9	0	N	wet	0.0-1.6 wash 1.6-1.9 pink, tan and peach colored silty f. sand Resumed sampling 1-20-98
100					2	0	N	wet	0.0-1.0 wash 1.0-2.0 f. white sand; some thin bands of red and yellow silt
105					2	0	N	wet	0.0-1.2 wash 1.2-2.0 white-tan f. sand and silt; little thin yellow-orange banding

	M	2		_4 P	!	. I				Boring	No.: FLMW-20
	W.	J	l l e	st B	orın	g L	og			Sheet	4 of 4
				rmer L						Projec	t No.: 650-272
		NYSE			· · · · · · · · · · · · · · · · · · ·						Start 1-19-98
				and F	amu						inish 1-21-98
				4.25" [ow S	tem /	\uaer			Depth: 110.49'
				54 Kir					***************************************		To Water: 53.0
Coor				0 1 1 ()				1,54			levation: 122.1
			Scott	G. Er	nalert						iameter: 8"
				ent(s)						TI TOTO L	idilicioi.
10111		Blows C			 				Classification Of Material		
			I	T	1	# _	_		f - fine and - 35-50	6	
=	ē,	15	18	24"	e C	a in G	inec in	tent	m - medium some - 20-3	5%	Domorko
Depth (ft)	.90	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Moisture Content	c - coarse little - 10-20		Remarks
				ļ	1				trace - 0-10 ^o	6	
110				_	2	0	N	wet	0.0-0.6 wash		
				<u> </u>					0.6-2.0 white, tan, yellow, orang		
									peach bands (0-30mm th	nick)	
									of silty f. sand; little clay	,	
									, , , , , , , , , , , , , , , , , , , ,		
										1	
				1							
											
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+			-	-	 	-					
			 								
			ļ——				-				
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-+		-		 			-				
				 							
			 	 	 						
			 	 							
		ļ	ļ								
-											

Shallow Well - Groundwater Elevations

		Ground Surface	PVC Riser	SWL	GW	SWL	GW	SWL	GW
Well ID	Depth	Elevations (ft.)	Elevations (ft.)	Measured (ft.)	Elevations (ft.)	Measured (ft.)	Elevations (ft.)	Measured (ft.)	Elevations (ft.)
	(feet)	(mean sea level)	(mean sea level)	1/30/98	1/30/98	2/11/98	2/11/98	2/25/98	2/25/98
DOAK MW-1	62.9	122.37	121.95	53.3	69.07	52.34	69.61	N/A	N/A
DOAK MW-2	62.58	122.61	122.36	53.85	68.76	52.95	69.41	N/A	N/A
DOAK MW-3	63.4	122.48	122.09	53.3	69.18	52.74	69.35	N/A	N/A
MW-201	68	123.63	123.36	54.35	69.28	53.76	69.6	N/A	N/A
MW-202	64.5	123.31	123	53.1	70.21	53.51	69.49	53.26	69.74
MW-203	66.5	123.34	122.15	53.4	69.94	52.77	69.38	N/A	N/A
FLMW-204A	60.22	122.96	122.64	53.7	69.26	52.97	69.67	52.64	70
FLMW-205A	60.55	122.18	121.63	53.1	69.08	52.35	69.28	52	69.63
FLMW-206A	59.7	122.04	121.63	53	69.04	52.2	69.43	51.95	69.68

Deep Well - Groundwater Elevations

		Ground Surface	PVC Riser	SWL	GW	SWL	GW	SWL	GW
Well ID	Depth	Elevations (ft.)	Elevations (ft.)	Measured (ft.)	Elevations (ft.)	Measured (ft.)	Elevations (ft.)	Measured (ft.)	Elevations (ft.)
	(feet)	(mean sea level)	(mean sea level)	1/30/98	1/30/98	2/11/98	2/11/98	2/25/98	2/25/98
FLMW-202B	121.25	123.25	122.8	54.2	69.05	53.4	69.4	53.37	69.43
FLMW-204B	109.51	122.96	122,55	53.6	69.36	53	69.55	52.71	69.84
FLMW-205B	110.92	122.12	121.2	53	69.12	51.96	69.24	51.76	69.44
FLMW-206B	110.49	122.13	121.74	53	69.13	52.46	69.28	52.1	69.64

	COMPLETION LOG	PROJECT NUMBER. 650-272
Former LAKA	site RI/FS	FLMW-202 B
NYSDEC		
Aller worth or	F DOAK building @ 6	WELL CONSTRUCTION COMPLETED:
1-14 to 1-15-98	DATE DEVELOPED:	WELL CONSTRUCTION COMPLETED:
DEVELOPING METHOD:	mersible	
ROTECTIVE ASING ELEVATION / 3.35	INSPECTOR:	- Lat
ASING 133 To	DRILLING CONTRACTOR:	well a D.
RADE 123.39	TYPE OF WELL:	VC
LEVATION	STATIC WATER LEVEL:	DATE:
	MEASURING POINT: TOTAL DE	PTH OF WELL: TOTAL DEPTH OF BORING:
	ground sustace 121.	35 bas lda bas
	DRILLING METHOD	CASING:
	4.25 ID	TYPE:
24.00	SAMPLING METHOD	Split Spoon
	1.375 ID	WEIGHT: 175 #
	A4 in.	INTERVAL: 5 Ft.
14.00	RISER PIPE LEFT IN PLACE	MATERIAL: PVC
19.00,	DIAMETER: LENGTH:	3 JOINT TYPE: Flush threaded
	SCREEN SCREEN	MATERIAL: PVC
	INTERVAL	DIAMETER:
	STRATIGRAPHIC UNITS SCREENED:	SLOT SIZE:
	FILTER PACK	GRADE:
	SAND: GRAVEL:	A MATURAL:
1.35	#1 Morie	INTERVAL
1.35	6 bags	109.35 - 121.35 bgs
NOT TO SCALE	SEAL(s)	
NOTES:	Portland Cement / Denten to	A' - 99.35 bas 20:2.5 be
	Bentonite Slurry	INTERVAL: AMOUNT: 49.35-109.35 b = 3.5 b = 2.36
		INTERVAL: AMOUNT:
	Bentonite Pellets	INTERVAL: AMOUNT:
	Other:	
	LOCKING CASING: NO	YES KEY NO:

MONITORINGWEL	LCOMPLE	TION LOG	PROJEC	15 NUMBER.	7-272
PROJECT NAME: Former LAK	A site RI	155	WELL		N-204A
CLIENT: NYSDEC					
LOCATION: Allex west of	J.M. Haley (71 Sylves	be St.) build in	19
DATE DRILLED: 1-22-98	DATE DEVELOPED:	-27-98	WELL	CONSTRUCTION COM	
DEVELOPING METHOD:	\ · · ·		^		
PROTECTIVE CASING ELEVATION 122.9	6 MS	Scott G.			
	ORILLING CO			and Pun	10
GRADE JAA.9	TYPE OF WE	۳. کې	PVC		7
	STATIC WATE	53.7	bes DATE.	1-27-	98
	MEASURING O COUND	POINT: Surface	FO. 22	ELL: TOTA	L DEPTH OF BORING:
		IG METHOD	TYPE	HSA	
	DIAMETER:	4.25° I	D CASING	G:	
79.3	SAMPLI	NG METHOD	TYPE	_	
	DIAMETER:	-	WEIGH	IT:	
7.	FALL		INTER	VAL:	
76.3	RISER	PIPE LEFT IN P	LACE MATER	PVC	
 	74 DIAMETER:	2	LENGTH: 49.81		sh threaded
	SCREE	N	MATER	PVC	
	INTERVAL:	0.22 - 60.22	bas DIAME		
	STRATIGRA	PHIC UNITS SCREENED:		10	
	FILTER	PACK	GRADE	#	
62.7		Morie	GRAVEL:		URAL:
61.9	AMOUNT:	6 bags	INTER	46.22-	60.22 bes
NOT TO SCALE	SEAL(s				
NOTES:	CHECK APP Portland	11 1	ita V a	- 43.22	AMOUNT:
	Bentonite	e Slurry	INTER		AMOUNT:
	Bentonite	e Pellets		22-46.22 6	AMOUNT:
	Other:		INTER	RVAL:	AMOUNT:
	LOCKING	CASING: N	O YES	KEY NO:	
		TAIA L ATAIL	ED MATHS	KY & SKELL	Y FNGINEERS LLI

	COMPLETION LOG	PROJECT NUMBER. 650 - 272
	A site RI/FS	FLMW-204B
NYSDEC		
OCCATION: Alley West of.	1. M. Haler (71 Sylv	rester St.) building
DATE DRILLED: /	DATE DEVELOPED: 1-29-98	WELL CONSTRUCTION COMPLETED:
DEVELOPING METHOD:	Submersible pump	
ROTECTIVE	INSPECTOR:	~ / 1 .1
ASING ELEVATION /22.96	STALLER OF THE STALL	D. Englart
ASING LEVATION 12.55	TYPE OF WELL:	Well and Pump
RADE /22.96	STATIC WATER LEVEL:	VC DATE:
	53.6 bes	1-29-98
		TOTAL DEPTH OF BORING:
	DRILLING METHOD	TYPE: HSA
	DIAMETER: 4.25" ID	CASING:
	SAMPLING METHOD	TYPE:
41.45	DIAMETER:	WEIGHT: SPOON
	/.375 ID	INTERVAL:
26.45	Q4 W.	MATERIAL:
	RISER PIPE LEFT IN PLACE	PVC JOINT TYPE:
	2"	19.1' flush threaded
	SCREEN	MATERIAL
	19.51-109.51 635	DIAMETER:
	STRATIGRAPHIC UNITS SCREENED:	SLOT SIZE:
	FILTER PACK	LONDO
13.46	SAND: # GRAVEL	# 1 Moriz Sand
11.96		INTERVAL OC C. LO C.
NOT TO SCALE	SEAL(s)	1NTERVAL 96.51 - 109.51 bys
	CHECK APPLICABLE /	INTERVAL: AMOUNT:
NOTES:	Portland Cement / bestowite	3'-81.51 bas 12:1 bags
	Bentonite Slurry	81.51-96.51 bas 1 bag 250
	Bentonite Pellets	INTERVAL: AMOUNT:
	Other:	INTERVAL: AMOUNT:
	LOCKING CASING: NO	YES KEY NO:
		ATUSKY & SKELLY ENGINEERS L

	NITORING WELL CO	MPLETION LOG	PROJECT NUMBER. 650 -	272
PROJECT NAME	Former LAKA Si	te RI/FS	650 - WELL NO: FLMW -	205A
CLIENT:	NYSDEC			
LOCATION:	Kinkel Street	across from Kara	+ Shop Parkin	· lot
DATE ORILLED:	1-27-98 DATE	DEVELOPED: / - 30 - 98	WELL CONSTRUCTION COMPLE	EO:
DEVELOPING ME	ETHOD:	ersible pump		
PROTECTIVE CASING ELEVATI		INSPECTOR: 500 # 6. E		
CASING	121.63°	DRILLING CONTRACTOR:	Well and Pun	_
GRADE -	122.18	TYPE OF WELL: 2" PVC		<u> </u>
ELEVATION	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	STATIC WATER LEVEL: 53.1 bas	/-30-98	
		MEASURING POINT: TOTAL DEP	TH OF WELL: TOTAL DE	PTH OF BORING:
		ground surtace 60.	55 695 6	0/ 095
		DIAMETER:	CASING:	
		H. 25 ID	TYPE:	•
	78.18	DIAMETER:	WEIGHT:	
		FALL	INTERVAL	,
	75.18	RISER PIPE LEFT IN PLACE	MATERIAL: D./a	•
	71.63	DIAMETER: LENGTH:	PVC JOINT TY	PE:
	11.63	SCREEN	MATERIAL:	h threaded .
		INTERVAL	DIAMETER:	
		STRATIGRAPHIC UNITS SCREENED:	SLOT SIZE:	
		FILTER PACK	GRADE:	
		SAND: GRAVEL:	# NATURAI	÷ **
	61.63	# Morie	INTERVAL:	
	NOT TO SCALE	4 bags	47-60.	55 bgs
	NOT TO SOME	SEAL(s) CHECK APPLICABLE	INTERVAL	AMOUNT:
NOTES:		Portland Cement betweents	Surface - 44 ber	8:0.5 bags
		Bentonite Slurry	INTERVAL	AMOUNT:
		Bentonite Pellets	44-47 bgs	1 bucket
		Other:		AMOUNT.
		LOCKING CASING: NO	YES KEY NO:	
		CTTO LAVACED MA	THERM & CHELLY	

MONITORINGWE	LL COMPLETION LOG	PROJECT NUMBER 650 - 272		
PROJECT NAME: FORMAR / A	KA site RI/FS	FLMW-205B		
CLIENT: NYSDEC	W Sile No / i			
LOCATION:				
DATE DRILLED:	Kinkel Street across +	WELL CONSTRUCTION COMPLETED:		
1-28 to 1-29-98 1-29-98 1-29-98				
2 SUMENSIBLE PUMP				
PROTECTIVE CASING ELEVATION 723	.12 MS1 Scott G.	Emplest		
CASING	TYPE OF WELL	Delta Well and Pump		
GRADE 122.12 2 PVC				
	STATIC WATER LEVEL: 53.0 bqs	1-30-98		
		epth of Well: TOTAL DEPTH OF BORING:		
	DRILLING METHOD	TYPE HSA		
-	DIAMETER: 4.25 " ID	CASING:		
	SAMPLING METHOD	Split Spoon		
- 42.	DIAMETER: 1.375 " I B	WEIGHT: 175 #		
	FALL:	INTERVAL: 5 ft		
• ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	RISER PIPE LEFT IN PLACE	MATERIAL: PVC		
_ 1.3	DIAMETER: LENGTH	JOINT TYPE:		
	SCREEN	100 Flush threaded PVC		
	INTERVAL	DIAMETER:		
	STRATIGRAPHIC UNITS SCREENED:	SLOT SIZE:		
	Magathy FILTER PACK	10 GRADE: 4.		
	SANO CRAVE	# MATURAL:		
11.9	AMOUNT:	INTERVAL		
10.1		94.92-110.92 695		
NOT TO SCALE	SEAL(S) CHECK APPLICABLE /	INTERVAL: AMOUNT:		
NOTES:	Portland Cement hosterite	V 0-80 bgs 17:1 bags		
	Bantonite Slurry	80-95 bes 1 bag 2 50 gal.		
	Bentonite Pellets			
	Other:	INTERVAL: AMOUNT:		
	LOCKING CASING: NO	YES KEY NO:		

MONITORING WELL CO	OMPLETION LOG	PROJECT NUMBER. 650 - 272
PROJECT NAME Former LAKA S:	te RI/FS	FLMW- 206A
NYSDEC		
LOCATION:	King Lot	
DATE ORILLED: OATE	E DEVELOPED: 1-28-98	WELL CONSTRUCTION COMPLETED:
DEVELOPING METHOD:		~ ~ ~ ~
	INSPECTOR: PUMP	()
PROTECTIVE CASING ELEVATION 122.04 ft.		krt (LMS)
CASING — — /dl.63 M5	De Ha Well and	d Pump
GRADE 122.04		
	STATIC WATER LEVEL: 53. / 645	/-28-98
	MEASURING POINT: TOTAL DE	PTH OF WELL: TOTAL DEPTH OF BORING:
	ground Sultace	59.7 bas 60 bas
	DRILLING METHOD	HSA casing:
	4.25" ID	CASING:
79.34	SAMPLING METHOD	TYPE:
11.34	DIAMETER:	WEIGHT:
	FALL:	INTERVAL:
76.34	DIGED DIGE LETTING AGE	MATERIAL:
73 04	RISER PIPE LEFT IN PLACE	H9.29 JOINT TYPE
— 7a.34	DIAMETER: CENGTH:	49.7 Flush threaded
	SCREEN	PVC
	19.7-59.7 695	DIAMETER:
	STRATIGRAPHIC UNITS SCREENED:	SLOT SIZE:
	FILTER PACK	GRADE:
	SAND: GRAVEL:	GRADE: # Morio
62.04	#1 Morie	
62.04	AMOUNT:	15.7-59.7 bgs
NOT TO SCALE	SEAL(s)	
NOTES:	CHECK APPLICABLE	INTERVAL: AMOUNT: ADVICE
	Portland Cement / Dantomite	INTERVAL: AMOUNT:
	Bentonite Slurry	
	Bentonite Pellets	Hd.7-45.7 bas I bucket
	Other:	INTERVAL: J AMOUNT:
	LOCKING CASING: NO	YES KEY NO:
	CONTRACTOR IN	

-	MONITORING WELL CON	MPLETION LOG	ROJECT NUMBER.
I	Former LAKA 5:+0	RI/FS W	FLMW-206B
7	NYSDEC		7,27,10 0,00,2
į		V: 1+	
			VELL CONSTRUCTION COMPLETED:
ı	1-19 t. 1-20-98 DEVELOPING METHOD:	1-d8-98	1-d1-98
	2 Submers	ible DUMP	
1	PROTECTIVE CASING ELEVATION Idd.13 Ft.ms/	DRILLING CONTRACTOR:	glart (LMS)
	CASING — IQ1.74	TYPE OF WELL	I and Pump
j	GRADE LEVATION 122.13	a" PVC	
		STATIC WATER LEVEL: 53.3 bes	1-28-98
		MEASURING POINT: TOTAL DEPTH C	7-28-98 DF WELL: //0.49 TOTAL DEPTH OF BORING:
-	74.00		PE: H5A
-		DIAMETER: (/) C.	ASING:
		H.25 ID	/PE:
	4d.13 L	DIAMETER: W	Split Spoon
		1.375 ID	175 /6.
	26.13	24 is.	5 ft.
-	20.13	RISER PIPE LEFT IN PLACE	PVC
	21.64	DIAMETER: LENGTH: /6	o' Flush threaded
		SCREEN	ATERIAL: PVC
_			AMETER:
_			LOT SIZE:
		Magothy FILTER PACK	ADE:
		SAND: GRAVEL:	# 1 Morie
	11.64	#1 Morie	NTERVAL:
	11.13	5.5 bags	96.00'-110.49' bgs
	NOT TO SCALE	SEAL(s)	
	NOTES:		nterval: Amount: Amount: Al: 1 begs
		/ In	80-96 bes AMOUNT: (1 bag)
		1 1	NTERVAL: AMOUNT:
L		Bentonite Pellets	NTERVAL: AMOUNT:
		Other:	
		LOCKING CASING: NO	YES KEY NO:

Exhibit N

NEW YORK STATE SUPERFUND CONTRACT FOCUSED REMEDIAL INVESTIGATION REPORT Volume II Appendices C-G

Former LAKA Industries Site Site No. 1-30-043K

Work Assignment No. D002676-27.1

DATE: November 1998



Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233 John Cahill, Commissioner

> Division of Environmental Remediation Michael J. O'Toole, Jr., *Director*

By:
Lawler, Matusky & Skelly Engineers LLP

APPENDIX C

WELL DEVELOPMENT LOGS

1-26-98 Date:

Crew: SGE, Delta

Job No: 650-272 Site: Former LAKA

LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. MW-201

pH Meter: CP 98-2

Cond. Meter: TLC #10

Therm: TLC #10

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGED	рн	ТЕМР. (°C)	SP: COND. (jimhos/cm)	TURB. (NTUs)	COMMENTS
1415		30	5.0	10.3	435	16.5	Pump on @ 1400
1430		60	4.5	12.0	435	18.1	Pump on @ 1400 Pump rate deal/min.
1445		90	4.6	12.0	432	3.8	
1500		120	4.8	13.0	429		water cleared
							ofter ~ 10 min. of
							Pumping
							Pump off @ 1500
		All Discourses and the Control of th				**************************************	
			-			**************************************	
		_		-		/	
							Old well
						•	

Depth of Well: Start: 54.35 bas End: 54.4 bas

Date: 1-26-98

LAWLER, MATUSKY & SKELLY ENGINEERS

pH Meter: (P 98- 2

Crew: SGE Delta

WELL DEVELOPMENT LOG

Cond. Meter. TLC# 10

Job No: 650-272

WELL No. MW 202

Therm: TLC#10

Site: Former LAKA

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGED	рн	ТЕМР. (°C)	SP. COND.	TURB. (NTUs)	COMMENTS
1105		<i>3</i> 0	5.3	8.7	200	4.2	Pump an @ 1050
1120		60	5.5	10.2	<u>გ</u> 00	1.80	Pump rate 2 gal/min.
1135		90	5.2	11.8	202	1.10	,
1150	-	120	5.3	13:1	à05	0.92	Pump on @ 10.50 Pump rate 2 gal/min. Pump off @ 1150
			<i>-</i> 4				
						ì.	
						/	:
							This is an old
							well
						,	

Depth of Well: Start: 53.1 bgs

End: 53.1 bgs

Date: 1-26-98

Crew: SGE, Delta

Job No: 650-272 Site: Former LAKA LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. MW-203

pH Meter: (P98-2

Cond. Meter:TLC#10

Therm: TLC #10

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGED	рН	ТЕМР. (°C)	SP: COND. (jumhos/cm)	TURB. (NTUs)	
1300		<u> </u>	5.5	11.0	420	d.45	Pump on @ 1250
1315		<u>50</u>	<i>5.</i> 2	12.6	395	3.00	Pump on @ 1250 Pumping rate 2901/min.
1330		80_	5.1	13.1	385	0.75	
1350		120	<i>5</i> .0	13:5	380	1.30	water cleared
							after 10 min.
							Pump off@ 1350

·							
						, , , , , , , , , , , , , , , , , , ,	
·							·
							Old well
		-				,	

Depth of Well: Start: 53.4' bgs

End: 53.4 b3s

Date: 1-27-98

Crew: SGE, Delta

Job No: 650-272 Site: Former LAKA LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. DOAK MW-1.

pH Meter:CP 98-2

Cond. Meter: TLC#10

Therm: TLC#10

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGED	рН	ТЪМР. (°C)	SP: COND.	TURB. (NTUs)	COMMENTS
0920		35	5.0	11.3	395	48.5	Pump on @ 0905
0935		70	5.1	12.1	402	3.6	Pump rate 2.5gal/min.
0950		105	5.1	12.5	401	0.95	,
1005		140	4.8	13.2	398	6.75	Pump on @ 0905 Pump rate d. 5gal/min. Pump off@ 1005
			-	·		• • • • • • • • • • • • • • • • • • •	
				•			
				-		,	
·						/	·
						·	
			****				Old well

Depth of Well: Start: 53.3 bg s

End: 53.6 bgs

Date: 1-27-98

Crew: 5GE, Delta

Job No: 650-272 Site: Former LAKA

LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. DOAK MW-2.

pH Meter: (P98- 2

Cond. Meter: TLC#10

Therm: TLC # 10

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGED	рН	ТЕМР. (°C)	SP: COND. (jɪnɪhos/cm)	TURB. (NTUs)	COMMENTS
1115		35	<i>5</i> .3	13.6	238	4.6	Pump an @ 1100
1130		70	4.8	13.6	238	0.75	Pump rate d. Sgal/min.
1145		105	<i>5.</i> a	14.0	ત્રે 33	0.45	
1200		140	-	141	<u> </u>	0.4	Pump an @ 1100 Pump rate 2.5gal/min. Pump of F. @ 1200
		***************************************		W			
·							
•							
						,	
							Old well

Depth of Well: Start: 53.85 bgs End: 56.8 bgs

Date: 1-26-98

Crew: SGE, DeHa

Job No: 650-272 Site: Former LAKA LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. DOAK MW-3.

pH Meter: (P98-2

Cond. Meter: TLC#10

Therm: TLC#10

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGED	рН	ТЪМЬ. (•c)	SP: COND. (junhos/cm)	TURB. (NTUs)	COMMENTS
0950		40	5.1	12.1	176	d.5	Pump on @ 0930
1010		80	5.1	13.0	170	۵.3	Pump rate deal/Min.
1030		120	<i>5.</i> d	13.0	173	d.6	,
'							Pump on @ 0930 Pump rate dgal/min. Pump off @ 1030
						/	
		·					· ·
							(ALL valorit
							Old Well
						·	

Depth of Well: Start: 53.3 bgs

End: 53.3 bgs

Date: 1-28-98

Crow: SGE, Delta

Job No: 650-272 Site: Former LAKA LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. FLMW-202B

pH Meter: CP 98-2

Cond. Meter: TLC#10

Therm: TLC #10

Turb. Meter: DRT-15C

		GAL.		тимр.	SP. COND.	TURB.	
1345	SWL	PURGED.	_{Брн}	12.2	(jimhos/cm)	/ 4.1	/-28-98
1355		50	11.0	12.9	4060	7900	Pump an @ 1335
1405		75	11.0	12.3	1530	>200	Pump rate 2.5 gal /min.
1415		100	10.0	10.2	910	>200	Pump rate d. Sgal/min. orange/brown + 5:14x
1425		/25	9.6	11.9	619	144	/
1435		150	9.7	12.6	544	130	
1445		175	9.0	11.1	508	74	
1455		200_	8.6	10.2	500	17_	
1505		225	8.5	11.2	499	16	Pump off @ 1505
0825		ર્ડ ૦	9.4	12.8	492	19	1-29-98
0835		475	8.7	13.1	483	8.9	Pump on @ 0815
0845		300	8.0	12.3	479	6.5	Pomo rate 2.5 gal Mir.
							Pump off@ 0845
						,	
						<u>'</u> '	
		· · · · · · · · · · · · · · · · · · ·				:	
						***************************************	New well
							7327

Depth of Well: Start: 54.2 bgs End: 54.2 bgs

Date: 1-27-98

Crew: SGE, Delta

Job No: 650-272

Site: Former LAKA

LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. FLMW-204A.

pH Meter: (P98- 2

Cond. Meter: TLC#10

Therm: TLC#10

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGUD	рН	ТЕМР. (°C)	SP: COND.	TURB. (NTUs)	COMMENTS
1340		25	6.1	12.9	255	>200	Pump on @ 1330
1350		50	6.1	12.9	251	>200	Pump on @ 1330 Pump rate 2.5gal/min.
1405		85	6.0	13.4	247	>200	, ,
1425		110	5.9	13.7	d 35	> 200	
1435		135	5.9	14.1	487	>200	
1445		160	5.9	12.0	226	> 200	
1455		185	6.0	11.9	227	24.0	
1505		210	5.8	12.8	225	7.2	
1515		તે35	5.7	12.6	227	51.5	
1525		360	5.8	13.9	224	12.5	Pump off @ 1530
						<u> </u>	
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						/	
					777		
							New Well

Depth of Well: Start: 53.7' bgs

End: 53.7 bys

1-29-98 Date:

LAWLER, MATUSKY & SKELLY ENGINEERS

pH Meter: CP 98-2

Crew: SGE, Delta

WELL DEVELOPMENT LOG

Cond. Meter: TLC#10

Job No: 650-272

WELL No. FLMW- 204 B

Therm: TLC # 10

Site: Former LAKA

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGUD	рн	ТЕМР. (°C)	SP: COND. (junihos/cm)	TURB. (NTUs)	COMMENTS
0950		15	7.0	14.2	353	> 200	Pump on @ 0945
1000		40	6.8	13.8	396	>200	Pamp rate 2.5gal/Min.
1010		65	6.9	13.1	404	>200	milky light brown
1020		90	6.4	13.8	416	>200	/ 3
1030		115	6.4	13.1	346	>200	milky light brown
1040		140	6.0	13.1	334	>200	
1050		165	5.8	14.0	420	6.5	Clear
1100		190	6.2	13.0	422	6.0	
1110		215	5,9	14.3	421	14.5	clear
1120		240	5.8	13.1	419	30.5	
1130		265	5.7	14.8	417	6.3	
1140		290	5.7	14.9	414	d.2	Pump off@ 1145
						1	
<u>.</u>						<i></i>	
						-	
							New Well

Depth of Well: Start: 53.6 bgs

End: 53.6 165

Date: 1-30-98

Crew: SGE, Delta

Job No: 650-272

Site: Former LAKA

LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. FLAW-dOSA.

pH Meter: CP 98- 2

Cond. Meter: TLC#10

Therm: TLC #10

Turb. Meter: DRT 15C

TIME SW	GAL. L PURGED	рН	ТЕМР. (°C)	SP: COND. (junhos/cm)	TURB. (NTUs)	COMMENTS
0825	25	6.7	13.3	205	>200	Pump ON @ 0815
0835	50	6.6	14.7	219	7900	Pump on @ 0815 Pumping rate disgal/min.
0845	75	6.5	14.9	213	>200	13
0855	/00	6.1	15:0	216	> 900	
0905	125	6.0	15.0	219	d4.8	
0915	150	6.0	15.2	237	7 900	after surging
0925	175	6.0	14.4	224	36.6	7 7
0935	200	5.9	14.2	227	5.4	·
0945	225	5.8	14.7	241	119.6	after pump lowered
0955	250	5.7	14.6	245	13	
1005	275	5.7	14.4	249	2.9	after pump lowered Pump off @ 1015
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					1	
					<i></i>	
					<i>{</i>	
						New well

Depth of Well: Start: 53.1' bys End: 53.2' bys

Date: 1-30-98

Crew: SGE, Delta

Job No: 650-272 Site: Former LAKA LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. FLMW- 2058

pH Meter: (P 98- 2

Cond. Meter: TLC #10

Therm: TLC # 10

Turb. Meter: DRT 150

TIME	SWL	GAL. PURGED	рН	ТЕМР. (°C)	SP: COND.	TURB. (NTUs)	COMMENTS
1125		۵5	5.6	15.0	297	>200	Pump on @ 1115
1135		<i>5</i> 0	5.4	15.1	305	>200	Pump on @ 1115 Pump rate d. Sgal/min
1145		75	5.4	15.0	310_	>200	7
1155		100	<i>5</i> .3	15:0	317	>200	
1205		125	5.3	15.0	316	66	
1215		150	<i>5.</i> 2	15.1	320	7200	after surging
1225		175	5.1	15.2	318	40	
1235		200	5.0	15.0	318	50	
1245		225	5.0	15.8	318	25	
1255		250	5.0	15.4	318	13	·
1305		275	5.1	15.1	318	9.5	
1315		300	5.0	14.9	321	7.5	Pump off@ 1315
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						· · · · · · · · · · · · · · · · · · ·	
		· · ·				ł	
							New well
							/ * EW VVE []
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Depth of Well: Start: 53.0 bgs

End: 53.2 bgs

Date: /-28-98

Crew: SEE and Delta

Job No: 650-272 Site: Former LAKA LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. FLMW-206A .

pH Meter: CP 98- &

Cond. Meter: TLC#10

Therm: TLC#10

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGED	рН	T2MP. (°C)	SP: COND.	TURB. (NTUs)	COMMENTS
0810		a 5	6.4	12.3	277	2200	
0820		50	6.5	14.3	269	7900	Pumping rate 2.5gal/mi
0830		75	6.4	12.2	252	158	
0840		100	6.8	14:2	345	7900	very silty
0850		125	6.9	13.0	381	>d00	Very silty
0900		150	6.7	14.0	<i>સે44</i>	>200	
0910		175	6.6	12.9	570	> 900	
0920		200	6.5	13.0	217	17.0	Cleaning up rapidly
0930		225	6.4	13.7	217	70.5	Cleaning up capidly Now - after being
0940		<u>a50</u>	6.4	12.6	214	9.2	Surged ~10 X
0950		275	6.6	14.0	à15	3.0	J
1000		300	6.4	13.6	३ ।4	ચ. 9	Surged ~10 X Pump eff @ 1000
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		,				.!	
M							
							New Well

Depth of Well: Start: 53.0 bgs

End: <u>53.0</u> 645

Date: 1-28-98

Crew: SGE, De Ha

Job No: 650-272 Site: Former LAKA LAWLER, MATUSKY & SKELLY ENGINEERS

WELL DEVELOPMENT LOG

WELL No. FLMW- 206 B.

pH Meter: CP 98-2

Cond. Meter: TLC#10

Therm: TLC #10

Turb. Meter: DRT 15C

TIME	SWL	GAL. PURGED	рН	ТЕМР. (°C)	SP: COND.	TURB.	COMMENTS
1100		25	6.1	12.9	280	>200	^
1110		50	6.0	13.5	279	>900	Pump on @ 1050 Milky appearance Pump rate 2.5 gal/Min.
1190		75	6.0	13.4	279	> 900	Pump rate 2.5 gal/Min.
1130		100	5.6	12.7	281	7900	
1140		125	5.6	13.5	276	70.2	much cleaver
1150		150	5.6	13.1	291	44.2	
1200		175	5.2	12.8	287	50.3	
1220		225	5.3	10.5	296	6.5	
1235		263	5.3	10.9	301	_ તે.8	
1250		300	<i>5</i> .2	11.6	299	1.8	Pump off @ 1250
-							-
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				- Allerina de la companya della companya della companya de la companya della comp		,	
·						1	
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							New well

Depth of Well: Start: 53.0 bgs

End: 53.1 635

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APPENDIX D

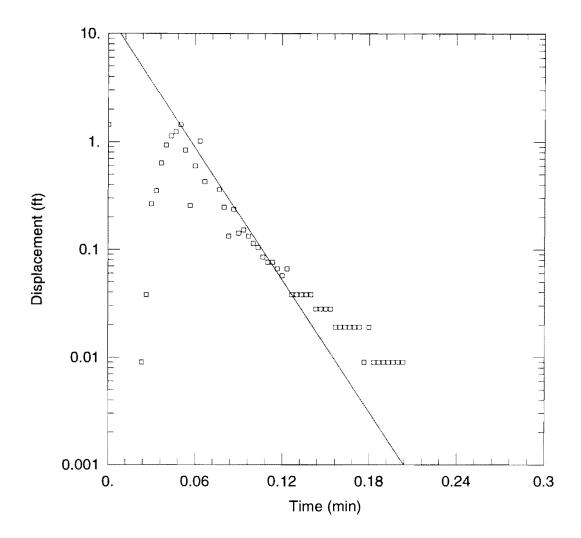
IN-SITU HYDRAULIC TESTING

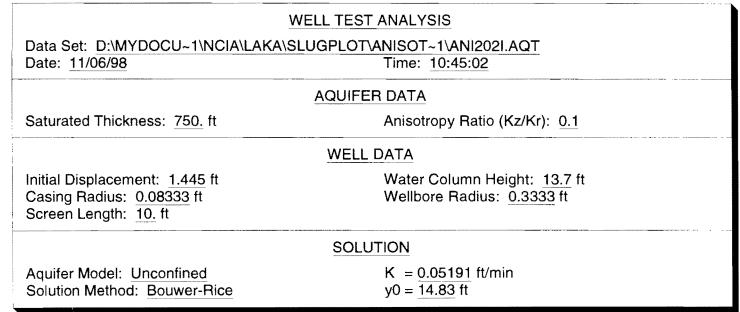
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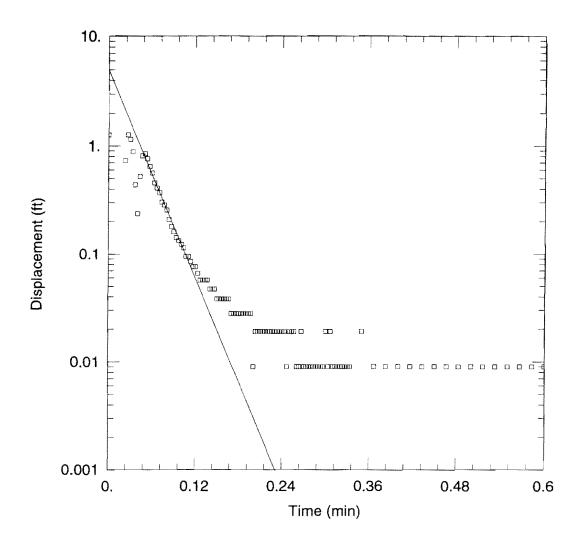
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Well ID	Well Depth	K (ft/day) slug in	K (ft/day) slug out
MW-202	64.5	74.75	58.38
FLMW-202B	121.25	4.22	6.63
FLMW-204A	60.22	261.50	154.80
FLMW-204B	109.51	7.21	6.98
FLMW-205A	60.55	253.44	285.41
FLMW-205B	110.92	102.79	73.48
FLMW-206A	59.7	391.10	353.09
FLMW-206B	110.49	12.24	14.27

Hydraulic Conductivity Values Calculated From Slug Test Data







Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI202O.AQT

Date: 11/06/98 Time: 10:45:47

AQUIFER DATA

Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.1

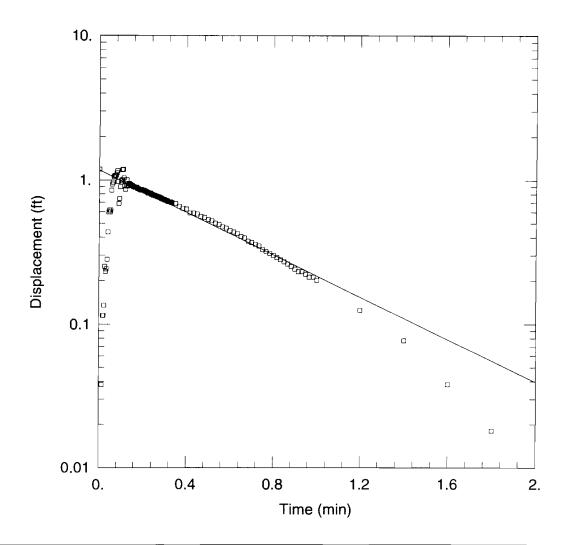
WELL DATA

Initial Displacement: 1.264 ft
Casing Radius: 0.08333 ft
Screen Length: 10. ft

Water Column Height: 13.7 ft
Wellbore Radius: 0.3333 ft

SOLUTION

Aquifer Model: Unconfined K = 0.04054 ft/min Solution Method: Bouwer-Rice y0 = 4.895 ft





Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI202BI.AQT

Date: 11/06/98 Time: 10:44:17

AQUIFER DATA

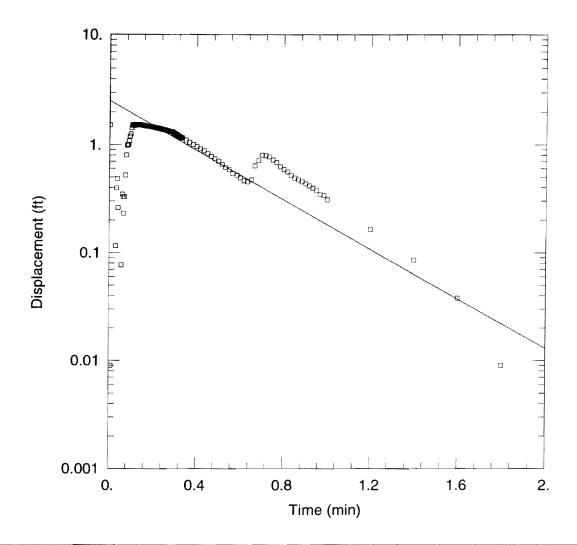
Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA

Initial Displacement: 1.189 ft Casing Radius: 0.083 ft Screen Length: 10. ft Water Column Height: 67. ft Wellbore Radius: 0.3333 ft

SOLUTION

Aquifer Model: Unconfined K = 0.002934 ft/min Solution Method: Bouwer-Rice y0 = 1.172 ft



Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI202BO.AQT

Date: 11/06/98 Time: 10:44:45

AQUIFER DATA

Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.01

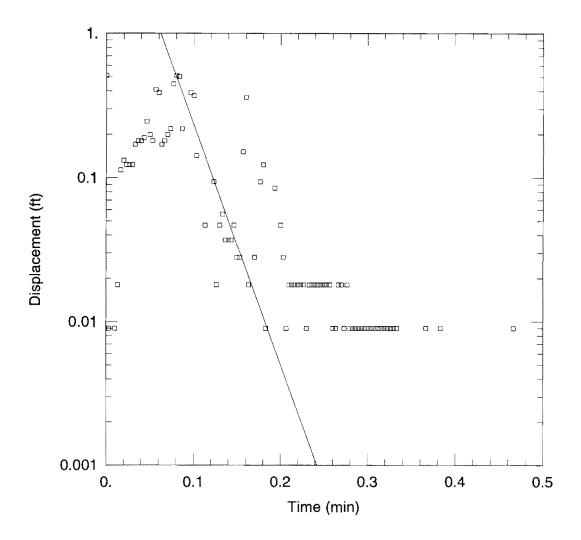
WELL DATA

Initial Displacement: 1.527 ft Water Column Height: 67. ft Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft Screen Length: 10. ft

SOLUTION

Aquifer Model: Unconfined K = 0.004607 ft/min

Solution Method: Bouwer-Rice y0 = 2.544 ft



Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI204AI.AQT

Date: 11/06/98 Time: 10:46:10

AQUIFER DATA

Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

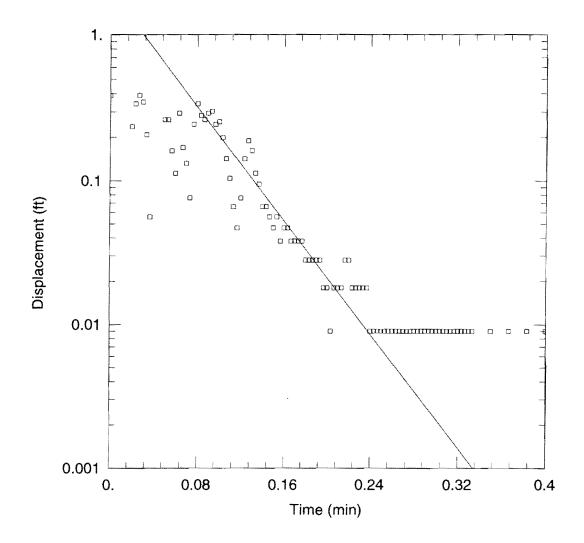
Initial Displacement: 0.512 ft Water Column Height: 7.36 ft Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft Screen Length: 10. ft

Gravel Pack Porosity: 0.25

SOLUTION

K = 0.1816 ft/minAquifer Model: Unconfined

y0 = 10.8 ftSolution Method: Bouwer-Rice



Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI204AO.AQT

Date: 11/06/98 Time: 10:46:30

AQUIFER DATA

Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.1

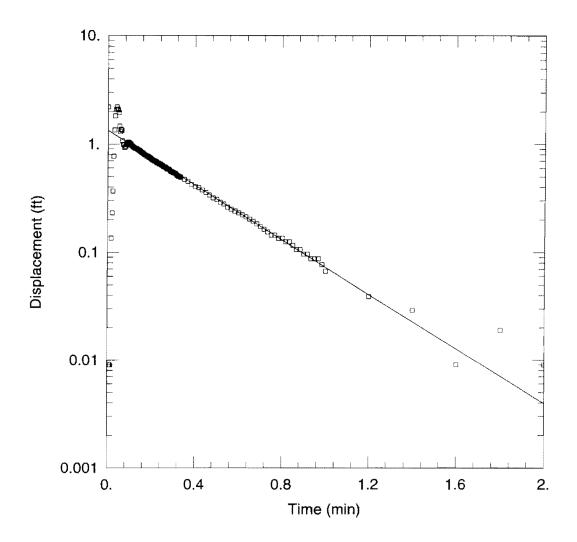
WELL DATA

Initial Displacement: 0.389 ft Water Column Height: 7.36 ft Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft Screen Length: 10. ft Gravel Pack Porosity: 0.25

SOLUTION

Aguifer Model: Unconfined K = 0.1075 ft/min

Solution Method: Bouwer-Rice y0 = 1.984 ft





Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI204BI.AQT

Date: 11/06/98 Time: 10:46:44

AQUIFER DATA

Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.01

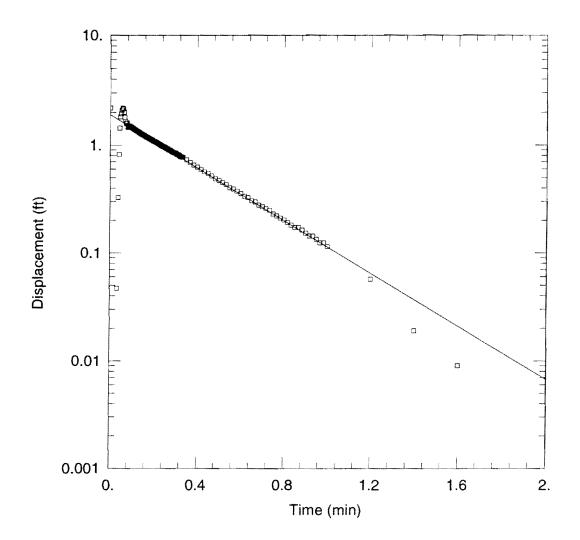
WELL DATA

Initial Displacement: 2.206 ft
Casing Radius: 0.08333 ft
Screen Length: 10. ft

Water Column Height: 57.3 ft
Wellbore Radius: 0.3333 ft

SOLUTION

Aquifer Model: Unconfined K = 0.005008 ft/min Solution Method: Bouwer-Rice y0 = 1.334 ft



Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI204BO.AQT

Date: 11/06/98 Time: 10:47:01

AQUIFER DATA

Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.01

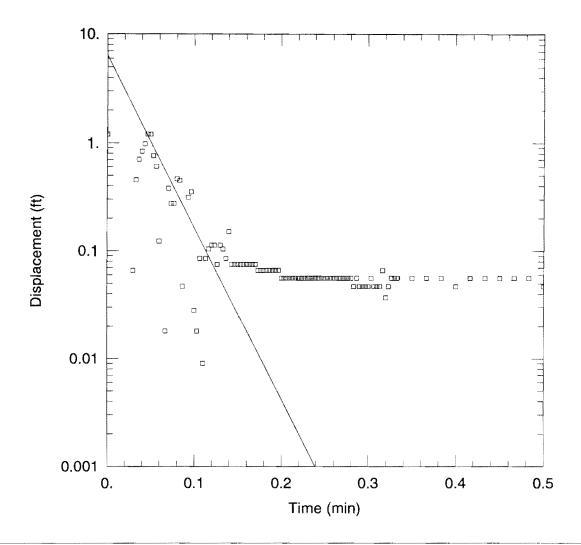
WELL DATA

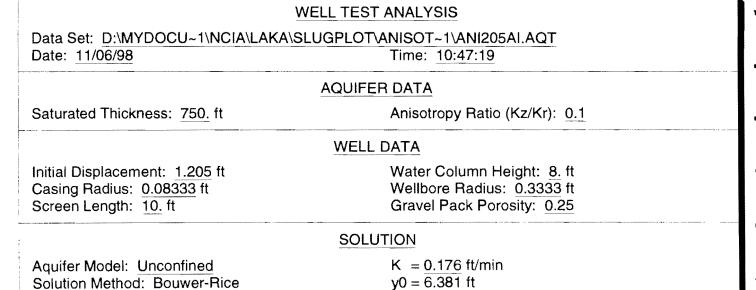
Initial Displacement: 2.185 ft Water Column Height: 57.3 ft Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft Screen Length: 10. ft

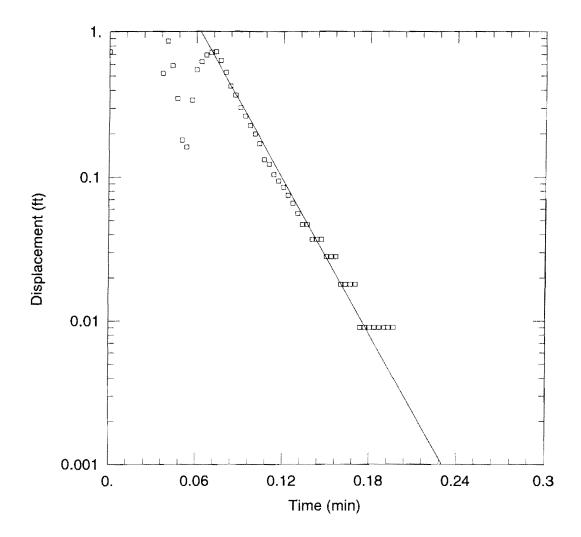
SOLUTION

Aquifer Model: Unconfined K = 0.004845 ft/min

Solution Method: Bouwer-Rice y0 = 1.898 ft







Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI205AO.AQT

Date: 11/06/98 Time: 10:47:40

AQUIFER DATA

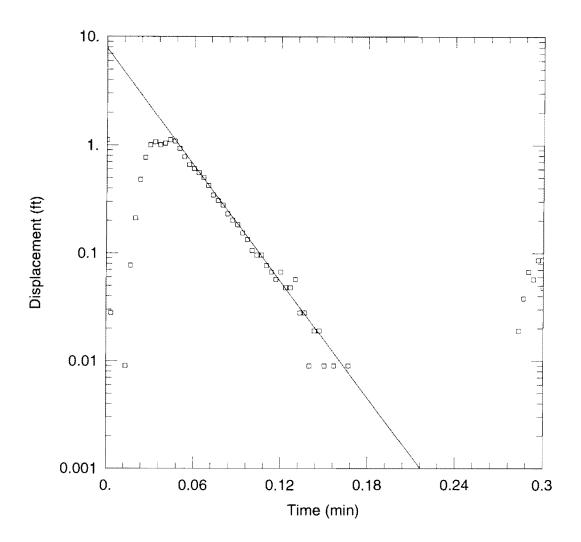
Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 0.73 ft Water Column Height: 8. ft Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft Screen Length: 10. ft Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined K = 0.1982 ft/min Solution Method: Bouwer-Rice y0 = 13.39 ft



Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI205BI.AQT

Date: 11/06/98 Time: 10:47:57

AQUIFER DATA

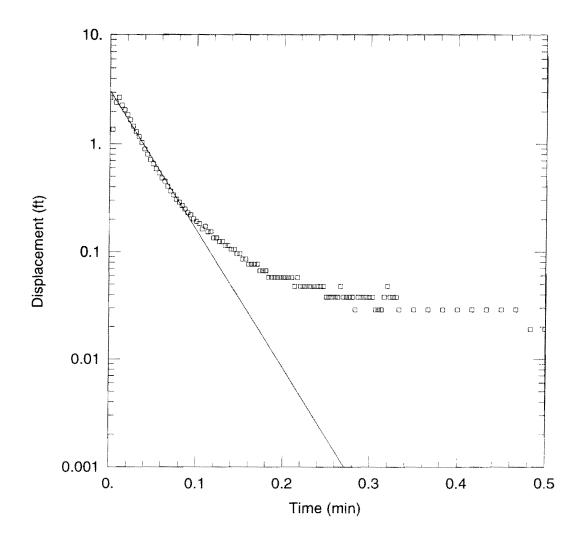
Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA

Initial Displacement: 1.118 ft Water Column Height: 58.24 ft Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft Screen Length: 10. ft

SOLUTION

Aquifer Model: Unconfined K = 0.07138 ft/min Solution Method: Bouwer-Rice y0 = 7.783 ft



Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI205BO.AQT

Date: 11/06/98 Time: 10:48:15

AQUIFER DATA

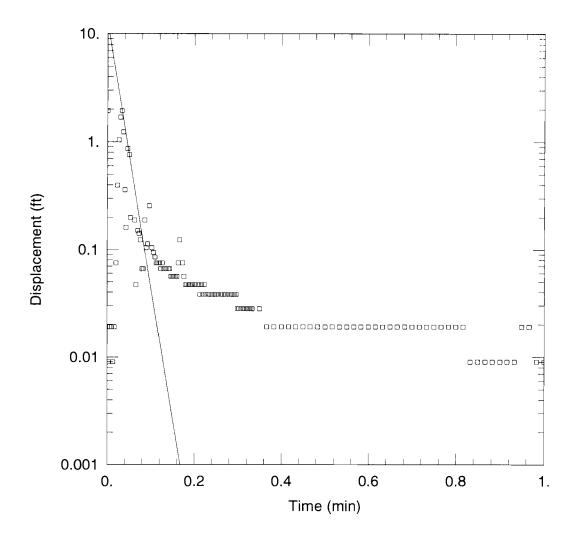
Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA

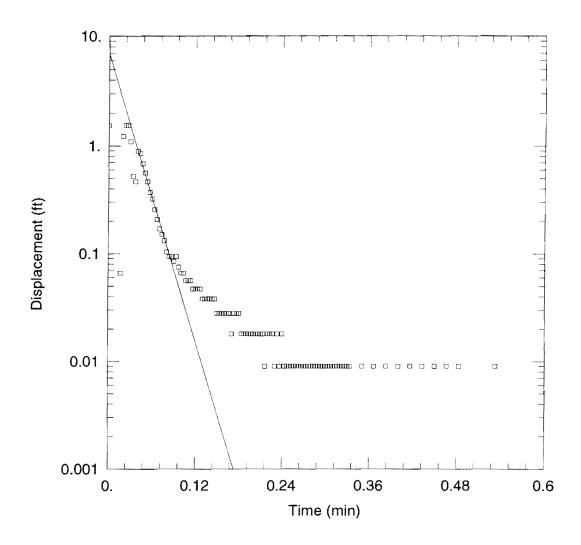
Initial Displacement: 2.707 ft Water Column Height: 58.24 ft Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft Screen Length: 10. ft

SOLUTION

Aquifer Model: Unconfined K = 0.05103 ft/min Solution Method: Bouwer-Rice y0 = 3.095 ft



WE	ELL TEST ANALYSIS
Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUDate: 11/06/98	JGPLOT\ANISOT~1\ANI206AI.AQT Time: 10:48:34
	AQUIFER DATA
Saturated Thickness: 750. ft	Anisotropy Ratio (Kz/Kr): 0.1
	WELL DATA
Initial Displacement: 1.937 ft Casing Radius: 0.08333 ft Screen Length: 10. ft	Water Column Height: 8.05 ft Wellbore Radius: 0.3333 ft Gravel Pack Porosity: 0.25
	SOLUTION
Aquifer Model: <u>Unconfined</u> Solution Method: <u>Bouwer-Rice</u>	K = 0.2716 ft/min y0 = 12.72 ft



Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI206AO.AQT

Date: 11/06/98 Time: 10:48:57

AQUIFER DATA

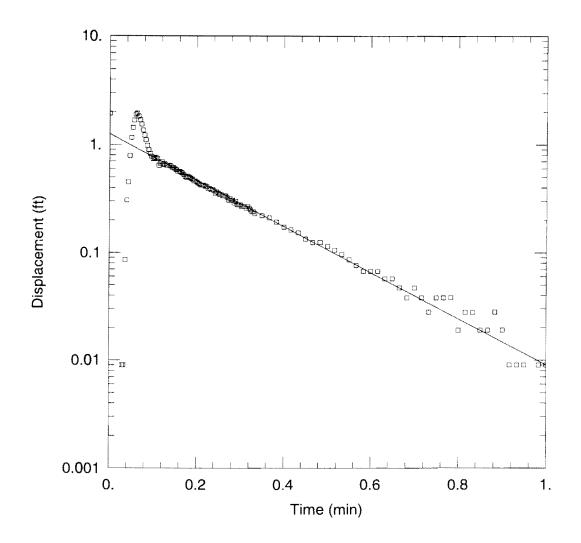
Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Initial Displacement: 1.547 ft Water Column Height: 8.05 ft Casing Radius: 0.08333 ft Screen Length: 10. ft Wellbore Radius: 0.3333 ft Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined K = 0.2452 ft/min Solution Method: Bouwer-Rice y0 = 6.892 ft





Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI206BI.AQT

Date: 11/06/98 Time: 10:49:46

AQUIFER DATA

Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA

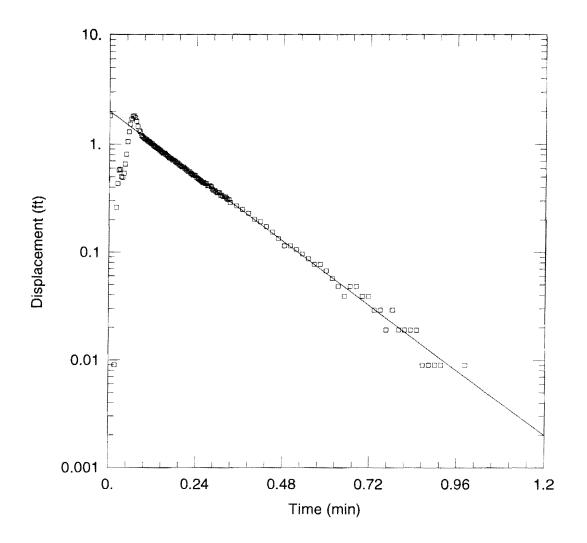
Initial Displacement: 1.944 ft Water Column Height: 57.9 ft Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft

Screen Length: 10. ft

SOLUTION

Aquifer Model: Unconfined K = 0.008497 ft/min

Solution Method: Bouwer-Rice y0 = 1.257 ft



WELL TEST ANALYSIS

Data Set: D:\MYDOCU~1\NCIA\LAKA\SLUGPLOT\ANISOT~1\ANI206BO.AQT

Date: 11/06/98 Time: 10:50:08

AQUIFER DATA

Saturated Thickness: 750. ft Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA

Initial Displacement: 1.818 ft Water Column Height: 57.9 ft Casing Radius: 0.08333 ft Wellbore Radius: 0.3333 ft Screen Length: 10. ft

SOLUTION

Aquifer Model: Unconfined K = 0.00991 ft/min Solution Method: Bouwer-Rice y0 = 2.005 ft

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APPENDIX E

GROUNDWATER SAMPLING LOGS

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WELL SAMP.	LING LOG
	METERS USED
Date: 2-10-98	Temp: TLC # 16
Crew: SE/EN	pH:
Job No: 650-272	Cond: 72 # 10
Project: LAKA	Turb: NYSDEC DRT- 15C
Project Site: 02 KinKal St.	S/N 19834
Well ID No: MW-201	DTW Before Sampling: 53.78
Well Condition: Good	Sample Date/Time(s): 2/10/98 1427 - 15'70
Well Depth/Diameter: 67.70 /2"	Sampling Method: Fellow Sailer
Well Casing Type: PVC	Sampling Depth(s): Toc
Screened Interval: bo#om 10	DTW After Sampling: 53.78
Casing Ht/Lock No:	Sampling Observations:
Reference Pt: TOC	Chain-of-Custody No(s):
Depth to Water (DTW): 53.76	Analytical Lab(s): Accredited labs
Water Column; Ht/Vol: 13.94 12.13 3a/.	
Purge Est: 36 gal.	SAMPLE CHEMISTRIES
Purge Date/Time(s): 2/10/91 / /258 - 1340	Temp. Sp. (CC) pH Cond. Turb.
Purge Method: Grand for promp	Start 14.1 5.5 372 83.5
Depth(s): all	End 13.9 9.7 432 > 200
Rates (gpm): 5.5	•
Purged Volume: 32 321.	SAMPLE ANALYSES
DTW After Purging: 53.78	Inv. Pres. Filt.
	Parameters No. Meth. (Y/N)
Yield Rate: L-M-19	VOC 24°C N
Purge Observations: **ange, silly	TAL Metals HNO3 N
cleared up	CN- NaOH N
PURGE CHEMISTRIES TEMP. SP. A T/Cm	CN /VAOH N
VOL. (*C) 5H COND. TURB.	
0 13.5 5.4 455 > 200 7.5 14.7 5.1 439 > 200	
15 14.6 5.3 437 198	
22.5 14.8 5.2 438 >200	
30 -14.9 5.2 432 58 Comments:	Air Temp: 40°s

Field Blank MS MS OF Crew Chief Signature:

Date: 2-/0 - 98

Date:	2-12-98
Crew:	SE /EH
Job No:	650-272
Project:	LAKA
Project Site:	Od Kinkel St.

Well ID No: DOAKMWI

Well Condition: Good

Well Depth/Diameter: 62.95 /4"

Well Casing Type: Puc

Screened Interval: bottom 10-

Casing Ht/Lock No:

Reference Pt: TOC

Depth to Water (DTW): 52.34

Water Column; Ht/Vol: 10.61 / 6.93 gal.

Purge Est: 11

Purge Date/Tinie(s): 2-12-98 1145 -1155

Purge Method: Gand fos pump

Depth(s): 411

Rates (gpm): 7.5

Purged Volume: 2 3 3al.

DTW After Purging: 52.35

Yield Rate: L-M-K

Purge Observations: Jack orange

	PUR	GE CHE	<u>MISTRIES</u>	
	TEMP		SP.MU	/cm
VOL.	(,0)	He	COND.	TURB.
0	14.6	5.5	453) 200
5	15.2	5.2	436	> 200
0	15.6	5.3	429	> 200
5	15.5	5.1	428	>200
0	15.6	5.3	420	74.2

	METERS USED	-
Temp:	TLC #10	_
pH:	CP 98-2	*
Cond:_	TLC #10	_
Turb:_	NYSDEC DRT ISC	•
	S/N 19834	_

DTW Before Sampling: 52. Dillar American

Sample Date/Time(s): 2-12-98 1215-1236

Sampling Method: Tellon Bailer

Sampling Depth(s): Toc

DTW After Sampling: Did not measure

Sampling Observations:

Chain-of-Custody No(s):

Analytical Lab(s): Accredited Las

based on puge results

	SAMPLE	CHE	MISTRIE	:S
	Temp.		Sp.	
	(*0	pН	Cond.	Turb.
Start	14.9	5.3	464	19.6
End	14.9	r. 3	443	-1-2

SAMPLE ANALYSES

Parameters	Inv. No	Pres. Meth.	Filt. (Y/N)
Voc		24°C	N
TAL Motals		HNO3	~
CN		N=04	~

Air Temp: 1: 40'5

Weather Conditions: OVER cast

Crew Chief Signature: Sett 9. 2

Date: 2 · / 2 - 98

Date:	2-12-98
Crew:	SE/EH
Job No:	650-272
Project:	LAKA
Project Site	: 62 Kinke 154.

Well ID No: DOAK MW- 2

Well Condition:

Well Depth/Diameter: 62.58 /47

Well Casing Type: PV6

Screened Interval: bollow 10

Casing Ht/Lock No:

Reference Pt: Toc

Depth to Water (DTW): 52.95

Purge Est: 19

Purge Date/Time(s): 2-12-98 0830-0840

Purge Method: 4-14) Cos pune

Depth(s): All

Rates (gpm): 7.5

Purged Volume: 15

DTW After Purging: 52.96

Yield Rate: L-M-M

	PURC	E CHE	MISTRIES	S
	TEMP.		SP. MU	lem
VOL.	(*0	οH	COND.	TURB.
ð	14.1	6.2	093	7200
5 .	15.3	5.8	106	7200
10	15.6	5.7	119	>200
15	15.9	5.4	122	> 200
Com	ments:			33.4
20	13.8	5.4	134	,,,
25	15.7	5.5	144	12.8

	METERS USED
Temp:	TLC #10
pH:	CP 98-2
Cond:	TLC #10
Turb:	NYSDEC DRY 15C
	SN 19834
	NYSDEC DRYISC

DTW Before Sampling: 52.95

Sample Date/Time(s): Z-12-98

0955

Sampling Method: Helon boil n

Sampling Depth(s): 700

DTW After Sampling: 52.95

Sampling Observations:

Chain-of-Custody No(s):

Analytical Lab(s): Accordited Labs

	SAMPL	E CHE	MISTRIE	S
	Temp.		Sp.	
	(.0	2H	Cond.	Turb.
Start	15.1	5.8	141	صدر
End	15.2	5.8	097	32.8

SAMPLE ANALYSES			
	Inv.	Pres.	Filt.
Parameters	Nc.	Meth.	(Y/N)
VOC ₅		64°C	N
TAL Metals		HNO3	N
CN-		NaOH	N

Air Temp: 50
Weather Conditions: Aai~

Crew Chief Signature: Feet & Elect

Date: 2-4-98

	METERS USED	
Date: 2/9/98	Temp: TLC #10	
Crew: SE BH	pH: CP 98-2	
Job No: 650 - 272	Cond: TLC #10	
Project: LAKARI	Turb: NYSDEC DRT-19	<u>5C</u>
Project Site: 6d Kinke/5t.		
Well ID No: DOAK MW-3	DTW Before Sampling: 57.76	
Well Condition: 600 d	Sample Date/Time(s): 1/9/48/15!	35-
Well Depth/Diameter: 63.40 /4"	Sampling Method: Jeflyn bailer	
Well Casing Type: PVC	Sampling Depth(s): TOC	
Screened Interval: bo # 0 10	DTW After Sampling: 32.76	
Casing Ht/Lock No:	Sampling Observations:	
Reference Pt: 70 C	Chain-of-Custody No(s):	
Depth to Water (DTW): 52.79	Analytical Lab(s): Accradited Lab	S
Water Column; Ht/Vol: 10.66 / 613a/		
Purge Est: 21 3a/	SAMPLE CHEMISTRIES	
Purge Date/Time(s): 2/9/98 /1300 /1500	Temp. Sp. (*C) pH Cond. Turb.	
Purge Method: +ellon bailse	Start 13./ 6./ 164 189	
Depth(s): Au	End 14.2 6.0 163 144	
Rates (gpm): -		
Purged Volume: 21 ga/	SAMPLE ANALYSES	
DTW After Purging: 62.16	Inv. Pres. Fi	,
		<u>/N)</u>
Yield Rate: L-M-10	Voc 24°C	y
Purge Observations: wake orange, silly	TAL Metals HNO3 N	/
PURGE CHEMISTRIES	CN- NOH N	/
TEMP. SP. A V/cm		
0 14.6 5.7 pt 137 > 700		
4 15.1 5.8 134 > 200		
15.3 5.9 148 > 200		
2 14.9 6.1 158 > 200		
Comments:	Air Temp: 40 's	1
6 142 6.0 160 2200	Weather Conditions: Sunny	

Crew Chief Signature:

7 200.

4

164

Date:	2-11-98
Crew:	SE /EH
	650-272
Project:	1 .
Project Site:	/ • • •

Well ID No: FLMW-202B

Well Condition: NEW

Well Depth/Diameter: 120.90 /z "

Well Casing Type: PVC

Screened Interval: Bollow 10

Casing Ht/Lock No:

Reference Pt: TOC

Depth to Water (DTW): 53.40

Water Column; Ht/Vol: 67.40' /10.99 gal.

Purge Est: 33 ga/.

Purge Date/Time(s): 7.11-98 136 - 1145

Purge Method: Grand fos pump

Depth(s): #11

Rates (gpm): 2.5

Purged Volume: 35 34/

DTW After Purging: 53.51

Yield Rate: L-M-

Purge Observations: orange, silly

-	PURG	E CHEM	(ISTRIES_	
VOL.	TEMP.	σH	SP. AZF/CA	L TURB
0	13.5	22	379	19.0
5	14.1	11-8	1266	>200
10	14.3	17.8	1471	> 200
15	14.4	11.5	968	7.000
20	. 14.4	11.2	705	12.4
15	ments:	10.9	606	49.6
30	14.5	10.6	550	37.2
35	14.0	10.4	519	23.9

	METERS USED
Temp:	TLC #10
pH:	CP 78-2
Cond:	TLC #10
Turb:	NYSDEC DRT-15C
	5/N 19834

DTW Before Sampling: 53.40

Sample Date/Time(s): 2-11-98 /220 -/230

Sampling Method: tefler ba:ler

Sampling Depth(s): top of column

DTW After Sampling: 53.40'

Sampling Observations:

Chain-of-Custody No(s):

Analytical Lab(s): Accradited labs

	SAMPLE	CHE	MISTRIES	
	Temp.		Sp.	
	<u>(*0</u>	ρН	Cond.	Turb.
Start	14.0	9.3	381	24.4
End	/ 3.3	9.3	386	22.6

SAMPLE ANALYSES				
Parameters	Inv.	Pres. Meth.	Filt. (Y/N)	
Voc		24°C	N	
TAL Metals		HN03	~	
CN-		NaOH	N	

Air Temp: 50's
Weather Conditions: SUNNY - partly cloudy
Windy

Crew Chief Signature: Next D. and Date: d-11-98

Date:	2-12-98
Crew:	SE/EH
Job No:_	650-272
Project:	LAKA
Daniage Ci	62 V. V. K

Well ID No: FLMW-204.A

Well Condition: New

Well Depth/Diameter: 59.90 /2".

Well Casing Type: P16

Screened Interval: be Hom 10

Casing Ht/Lock No:

Reference Pt: TOC

Depth to Water (DTW): 52.97

Water Column; Ht/Vol: 6.93 1.13 gal.

Purge Est: 3.5 gal.

Purge Date/Time(s): 2-12-98 /330-1345

Purge Method: +2Clon bailm

Depth(s): All

Rates (gpm): -

Purged Volume: 49al.

DTW After Purging: 52.97

Yield Rate: L-M-A)

Purge Observations: 5:14y orange

	TEMP.		SP. AU	i KM
VOL.	<u> </u>	ьH	COND.	TURB.
0	14.1	5.9	241	85.3
1	14.2	6.0	دک ۍ	>200
9	14.1	6.6	a85	> 900
3	14.3	6.0	295	> 200
4	. 14.1	6.0	183	> 900
Com	nents: 🤝	معمنهم	· alable	tor-d
	1	7	hale	
around casing in manhole. water over well cap				

	METERS USED	*,
Temp:	TLC #10	
pH:	CP 98-2	•
Cond:	TLC # 10	
Turb:	NYSDEC DRT 15C	-
	S/N 19834	

DTW Before Sampling: 52.97

Sample Date/Time(s): 2-12-98 1350 - 11-0

Sampling Method: + Clor beile

Sampling Depth(s): TOC

DTW After Sampling: 52.97

Sampling Observations:

Chain-of-Custody No(s):

Analytical Lab(s): Accredited labs

	SAMPLE	CHE	MISTRIE	\$
	Temp.		Sp.	
	<u>("C)</u>	2H	Cond.	Turb.
Start	13.8	6.1	बेरव	1200
End	13.8	6.1	218	7200

SAMPLE ANALYSES			
Parameters	Inv. Nc	Pres. Meth.	Filt. - (Y/N)
Voc		∠4°c	~/
TAL Metals		HNO3	•
CN-		N= 04	.,

Air Temp: 40's
Weather Conditions: 014 cast / slight
shows

Crew Chief Signature: Sett S. Zylant

Date: <u>2-12-98</u>

	METERS USED
Date: 2-11-98	Temp: TLC #10
Crew: 50/EH	pH: CP 98-2
Job No: 650 - 272	Cond: TLC # 10
Project: LAKA	Turb: NYSDEC DRT-15C
Project Site: 62 Kinke 1 St.	5/N 19834
Well ID No: FLMW- 204B	DTW Before Sampling: \$3.00
Well Condition:	Sample Date/Time(s): 2 - 11-98 /540 - 1
Well Depth/Diameter: 109.10 /2"	Sampling Method: Tallan Sailer
Well Casing Type: PV4	Sampling Depth(s): To
Screened Interval: 10 beltom	DTW After Sampling: 53.00
Casing Ht/Lock No:	Sampling Observations:
Reference Pt: TOL	Chain-of-Custody No(s):
Depth to Water (DTW): 53.00	Analytical Lab(s): Accredited Labs
Water Column; Ht/Vol: 56.1/9.14 9al.	
Purge Est: 30 gal.	SAMPLE CHEMISTRIES
•	Temp. Sp.
Purge Date/Time(s): 2-11-98 / 1365 - 1515	120 16 45 75
Purge Method: Grand for pury	36 45 301 HS
Depth(s): All	End 15.7 0.3 340 78.9
Rates (gpm): 4	CARDIE ANAIVEE
Purged Volume: 30 3-1.	SAMPLE ANALYSES
DTW After Purging: 53.00	Inv. Pres. Filt. Parameters No. Meth. (Y/N)
Yield Rate: L-M-7	VOC 24°C N
Purge Observations:	TAL Metals HNO3 N
PURGE CHEMISTRIES	CN- NOH N
TEMP. SPUT CM VOL. (°C) 9H COND. TURB.	
0 13.8 7.0 404 20.4	
5 14.3 6.6 444 > 200 10 14.7 6.4 443 }v200	
15 14.7 6.3 438 >200	
20 147	
Comments:	Air Temp: 40°3
15 14.8 6.4 430 33.5	Weather Conditions: Cloudy
50 14.6 6.2 429 32.7	

Crew Chief Signature:__

Date: 2-11-98

Date: 2 - 10 - 98	
Crew: <u>SE/E H</u>	
Job No: 650-272	
Project: <u>LAKA</u>	
Project Site: 62 Kike 1 54	
Well ID No: FLMW-205 A	
Well Condition: NEW	
Well Depth/Diameter: 60.00 /2"	
Well Casing Type: PVC	
Screened Interval: Bollow 10	
Casing Ht/Lock No:	
Reference Pt: Toc	
Depth to Water (DTW): 52.35	
Water Column; Ht/Vol: 7.45/1.25 gal	
Purge Est: 43a/	
Purge Date/Time(s): 2-10-98 /630-1700	
Purge Method: Tellowbile	
Depth(s): AN	
Rates (gpm):	
Purged Volume: 5 3al	
DTW After Purging: 52.35	_
	P
Yield Rate: L-M-R	
Purge Observations: very 5:14y (orange color)	
•	
PURGE CHEMISTRIES TEMP. SP. MV/M	
VOL. (*C) 9H COND. TURB.	
agal 13.0 5.9 415 > 200	

ing Lo	ME <u>TE</u>	RS USED	
Temp:		TIC #	
pH:	CP	98.2	
Cond:		LC # 10	
Turb:	MYSDEC	DRI	- 156
		U 198:	
		~ · · ·	٠. ا
	Before Sampli		5
Sampl	e Date/Time(s)	:d-10-98	17:25 -
Sampi	ing Method: 7	eflow bails	er
Sampl	ing Depth(s):	Toc	•
DTW	After Samplin	g: 52.35	
Sampl	ing Observatio	ns:	
	of-Custody No		
Analyt	tical Lab(s): /	4ccredita	ed Labs
Start End		Sp. Cond. 3 31 406 ANALYSE:	Turb. > 200 > 200
Paramete	Inv. e <u>rs No</u> .		
VOC		24	م م
TAL	Matals	HN	0 ₃ ~
CN	-	Na	OH N

	<u>PURG</u>	E CHE	MISTRIE	S
	TEMP.		SP. 42	
VOL.	<u> </u>	ьH	COND.	דעגש
a gal	13.0	5.9	415	> 200
1 321	13.2	5.8	427	> 200
d sal.	13.5	5.8	425	> 200
3 3al.	13.8 nts:	5.8	363	> 200
4 gal.		5.8	370	> 100
Sgal.	13.6	5.8	375	> 100

Air Temp: 45-50°
Weather Conditions: partly sunny

Crew Chief Signature: Kott S. Englant

Date: 2-10-98

WELL SAME	PLING LOG		
2-12-98	METERS USED		
Date: 2 /0-98	Temp: TLC #10		
Crew: 5 <i>E</i> / <i>E H</i>	pH:		
Job No: 650 - 272	Cond: TLC #10		
Project: LAKA	Turb: NISDEC DRT 15C		
Project Site: 62 Kinke / St.	S/N 19834		
Well ID No: FLMW-205B	DTW Before Sampling: 51.96		
Well Condition: Νεω	Sample Date/Time(s): 2-12-18 1545-		
Well Depth/Diameter: 110.00 / 1	Sampling Method: + flowbails		
Well Casing Type: PVC	Sampling Depth(s): Toc		
Screened Interval: 8, + 10	DTW After Sampling: 51.96		
Casing Ht/Lock No:	Sampling Observations:		
Reference Pt: TOC	Chain-of-Custody No(s):		
Depth to Water (DTW):	Analytical Lab(s): Accredited Labs		
Water Column; Ht/Vol: 57.9 /9.44 58.04			
Purge Est: 28.5 gal.	SAMPLE CHEMISTRIES		
Purge Date/Time(s): 2-12-98 1508 - 1525	Temp. Sp. (*C) pH Cond. Turb.		
Purge Method: 3-12-98 Growd fos por P	start 14.1 5.5 322 20.7		
Depth(s): All	End 14.0 5.5 322 21.9		
Rates (gpm): 2.5			
Purged Volume: 30 gal.	SAMPLE ANALYSES		
DTW After Purging: 51.96	Inv. Pres. Filt.		
	Parameters No. Meth. (Y/N		
Yield Rate: L-M-🗗	VOC 24°C N		
Purge Observations:	TAL metals HNO3 N		
	CN- NeOH N		
PURGE CHEMISTRIES TEMP. SP. M. V/cm	·		
VOL. (°C) 9H COND. TURB. O 14.1 5.4 316 16.1			
5 14.3 5.3 325 >200			
10 14.4 5.2 323 >200			
15 14.3 5.2 321 >200 20 1411 53 320 >200			
AU 17.4 3.3	Air Temp: 40'5		
Comments: >20 14:7 5.7 321 >20	Weather Conditions: ovacest		

Crew Chief Signature:

7200.

318

5.V

Date: 2-12-98

WELL SAMPLING LOG

	METERS USED
Date: 2/9/98	Temp: TLC #10
Crew: SE/EH	pH: CP 98-2
Job No: 650 - 272	Cond: TLC #16
Project: LAKA RI	Turb: NYSDEC DRT-ISC
Project Site: 62 Kinke / 54.	5/N 19834
Well ID No: FL MW - 206A	DTW Before Sampling: 52.20
Well Condition: N • w	Sample Date/Time(s): 1/9/98 1515-15
Well Depth/Diameter: 59.29 /2"	Sampling Method: Inflorbailer
Weil Casing Type: PV-	Sampling Depth(s): To c
Screened Interval: Below 10	DTW After Sampling: 52.20
Casing Ht/Lock No:	Sampling Observations:
Reference Pt: 766	Chain-of-Custody No(s):
Depth to Water (DTW): 52,20'	Analytical Lab(s): Accredited Labs
Water Column; Ht/Vol: 7.09 / 6.17 ga/	·
Purge Est: 48 /8 34/	SAMPLE CHEMISTRIES
Purge Date/Time(s): 2/9/98/ 1210 - 1430	Temp. Sp. <u>(*C) pH Cond. Turb.</u>
Purge Method: + Eflow bails	Start 13.7 6.2 205 > 200
Depth(s): All	End 14.4 6.2 214 >200
Rates (gpm):	
Purged Volume: 14	SAMPLE ANALYSES
DTW After Purging: 52.1	Inv. Pres. Filt.
	Parameters No. Meth. (Y/N)
Yield Rate: L-M-🔁	VOC 24°C N
Purge Observations: water oranger silly	KAL Metale HNO3
	CN- NaOH
PURGE CHEMISTRIES	, ·
TEMP. SP. M 8/cm VOL. (*C) 2H COND. TURB. O 11 3 69 225 7200	
16.5	12
3 15.9 5.8 204 >200	15
6 16.8 6.2 209 > 200	18
9 .16.1 6.1 24 >200	
Comments: > 200	Air Temp: Ho's Weather Conditions: Sunny
15 15.0 6.4 221 > 200	

14.3 6.4

Crew Chief Signature:____

18

Date:	2-11-95		
Crew:	SE/EH		
Job No:	450-272		
Project:	LAKA		
Project Site:	62 Klake 154		

Well ID No: FLMW-206B

Well Condition: NEW

Well Depth/Diameter: 110.10/27

Well Casing Type: PVC

Screened Interval: bettom 10

Casing Ht/Lock No:

Reference Pt: To-

Depth to Water (DTW): 52.46

Water Column; Ht/Vol: 67.64/9.40 qal.

Purge Est: 28 gal.

Purge Date/Tinie(s): 2-11-98 0930-850

Purge Method: Garafos Pump

Depth(s): All

Rates (gpm): 2.5

Purged Volume: 37.5 gal.

DTW After Purging: 52.50

Yield Rate: L-M-A

Purge Observations: Gharted clear works orange atthe

-	PURG	E CHEN	MISTRIES	
	TEMP.	••	SP. 43/6	M
VOL.	<u>(O</u>	ρH	COND.	TURB.
0	,3.5	5.7	299	2.2.5
7.5	14-5	5.7	294	>200
15	14.5	5.7	297	7000
22.5	14.5	5.4	303	> 200
30 Comm	ients: d	9.7	795 164	92.8
37.5	-,4.7	5.8	296	80.0

-	METERS USED
Temp:	TLC #10
pH:	CP 98-2
Cond:	TLC #10
Turb:	NYSDEC DRT-15C
	5/N 19834

DTW Before Sampling: 52.50'

Sample Date/Time(s): 2-11.48 0925-093

Sampling Method: tella bailer

Sampling Depth(s): To a

DTW After Sampling: 52.50

Sampling Observations:

Chain-of-Custody No(s):

Analytical Lab(s): Accordited labs

-	SAMPLE	CHE	MISTRIE	<u> </u>
	Temp.		Sp.	
	<u>(°0</u>	pН	Cond.	Turb.
Start	14.3	5.8	305	<u>23.</u> /
End	4.3	5.7	302	37.3

SAM	PLE A	NALYSES	
	Inv.	Pres.	Filt.
Parameters	Nc.	- <u>Meth.</u>	(Y/N)
Voc		24°C	N
TAL metals		HNO3	N
CN-		NaOH	N

Air Temp: 40'5

Weather Conditions: Surry

Crew Chief Signature: North S. Englest

Date: 2-11-98

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APPENDIX F

DATA VALIDATION AND USABILITY REPORT

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DATA USEABILITY REPORT

This useability report covers the analytical results, submitted by Accredited laboratories, Inc. (Accredited), for the field sampling investigation, conducted by Lawler, Matusky & Skelly Engineers LLP (LMS) in February 1998 at the Laka site. The analytical report submitted by Accredited, sample designation group (SDG) 8342 was validated by Nancy J. Potak's Data Validation. LMS reviewed the data validator's final report and assessed the analytical data against the project data quality objectives (DQOs) in preparation of this report. The laboratory performed all of the necessary actions in order to provide the most representative data and where resulting quality control (QC) data did not fall within protocol requirements the reported data have been appropriately qualified. Overall, the data submitted by Accredited met project DQOs and are useable to characterize levels of select environmental contaminants in samples collected as part of the Laka investigation.

A total of 14 groundwater samples were collected as part of the Laka investigation and analyzed for contract laboratory program (CLP) target compound list (TCL) volatile organic compounds and CLP target analyte list (TAL) metals and cyanide. All of the analyses were conducted in accordance with the most recent version of the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP).

In general the analytical data submitted by Accredited were compliant with the established protocols. These instances where the reported data were noncompliant are described in the data validator's report. This report presents a discussion of any impacts that noncompliant data and any other issues raised by the validator may have on the useability of the reported results.

Volatile Organic Compound Analysis

Groundwater samples submitted to Accredited were analyzed for TCL VOCs in accordance with NYSDEC ASP CLP Method 95-1. All of the holding times, QC, and instrument calibration requirements were met with the few exceptions described in detail in the data

validator's report. Where reported concentrations may have been affected by QC failures the data useability is discussed below:

- 1. The recoveries of toluene in the matrix spike (MS) and matrix spike duplicate (MSD) were slightly outside of the required quality assurance limits. Data useability is unaffected and no qualification is indicated.
- 2. Methylene chloride was detected in the method blanks as well as the field and trip blanks at levels which were comparable to detections in field samples. The presence of methylene chloride in the samples, therefore, is not considered to be representative of site conditions and the validator rejected all detections of the compound. Methylene chloride was removed, therefore, as a detected compound in the final data summary table prepared by LMS.
- 3. Instrument detection limits (IDLs) were determined 8 months ago which is outside of the NYSDEC ASP requirement of 6 months. Data useability is unaffected and no qualification is required.

Target Analyte List Metals plus Cyanide

- 1. Chromium was detected in the method blank at a concentration which slightly exceeded the contract required detection limit (CRQL). The presence of chromium in the method blank indicates a source of chromium contamination which is not associated with the environmental samples. Samples were not re-run by the laboratory as required by protocol. Based upon the NYSDEC ASP quality assurance manual, the validator was required to reject all chromium data which is less than 10 times the blank concentration ($< 100 \mu g/l$). Data is useable, however, to indicate the relative magnitude of chromium in the samples.
- 2. Recovery of the CRQL zinc standard was slightly low indicating that for samples which reported low-level zinc concentrations, those concentrations are estimated and may be slightly biased low.

- 3. Iron was detected in low concentrations in the field blank which did not affect data useability or reporting.
- 4. Duplicate analyses resulted in a elevated relative percent difference for zinc. All zinc concentrations reported for the environmental samples, therefore, were considered to be highly estimated. Data is useable to indicate the relative concentration of this parameter in groundwater.
- 5. Results of the total serial dilution analysis indicated the recoveries of aluminum, barium, calcium, iron, magnesium, manganese, and sodium were outside of the acceptable quality assurance limits and therefore should be considered estimated. data is useable to show the relative concentrations of theses analytes in groundwater.

SUMMARY OF THE ANALYTICAL DATA VALIDATION For NYSDEC LAKA

New York State Department of Environmental Conservation Data Validation Summary Form

Group #	Date Received	CLP Year	Sample Number	Matrix (S / W)	VOA Compliance	BNA Compliance	Pest/PCB Compliance	TCL Metals Compliance	Cyanide Compliance	Page # in CLP	Non Co	ompliance	e
8342	2/10/98	95	FLMW-206A	W	See Text	NA	NA	See Text	NA				
8342	2/10/98	95	DOAL MW-3	W	See Text	NA	NA	See Text	NA				
8342	2/11/98	95	MW-201	W	See Text	NA	NA	See Text	NA				
8342	2/11/98	95	FB-1	W	See Text	NA	NA	NA	NA				
8342	2/11/98	95	FB-2	W	See Text	NA	NA	NA	NA				
8342	2/11/98	95	FLMW-205A	W	See Text	NA	NA	See Text	NA				
8342	2/11/98	95	FLMW-205D	W	See Text	NA	NA	See Text	NA				
8342	2/11/98	95	Field Blank	W	See Text	NA	NA	See Text	NA				
8342	2/11/98	95	TB 1/2	W	See Text	NA	NA	NA	NA				
8342	2/12/98	95	FLMW-206B	W	See Text	NA	NA	See Text	NA				
8342	2/12/98	95	MW-202	W	See Text	NA	NA	See Text	NA				
8342	2/12/98	95	FLM202B	W	See Text	NA	NA	See Text	NA				
8342	2/12/98	95	MW-202	W	See Text	NA	NA	See Text	NA		- 5%		()
8342	2/12/98	95	FLMW-202B	W	See Text	NA	NA	See Text	NA		CONTROL OF THE PARTY OF THE PAR		SKELLY EN
8342	2/12/98	95	FLMW-204B	W	See Text	NA	NA	See Text	NA		2) 2)	APR	구동
8342	2/12/98	95	TB 3/4	W	See Text	NA	NA	NA	NA		200	ž	۳, ټ <u>ي</u>
8342	2/13/98	95	DOAKMW-2	W	See Text	NA	NA	See Text	NA		S ∑	w	G A
8342	2/13/98	95	DOALMW-1	W	See Text	NA	NA	See Text	NA		aste	1998	E
8342	2/13/98	95	FLMW-204A	W	See Text	NA	NA	See Text	NA		Se (∞	ER, MATUSKY ENGINEERS L
8342	2/13/98	95	FLMW-205B	W	See Text	NA	NA	See Text	NA		Hazaroous Waste Section		- Fp ∞
8342	2/13/98	95	MW-203	W	See Text	NA	NA	See Text	NA		3		•
⁸³⁴²	2/13/98	95 á	TB 5/6	w	See Text ■	NA #	NA .	NA 🖷	NA		•	_	

SUMMARY OF THE ANALYTICAL DATA VALIDATION NYSDEC LAKA

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342 **Laboratory Reference Numbers:**

FLMW-206A	9801435
DOAL MW-3	9801436
MW-201	9801459
MW-201MSD	9801459MS
MW-201MSD	9801459MSD
FB-1	9801460
FB-2	9801461
FLMW-205A	9801462
FLMW-205D	9801463
FB	9801464
TB-1/2	9801465
FLMW-206B MW-202 FLM-202B MW-202 FLMW-202B FLMW-204B TB 3/4	9801496 9801497 9801496 9801497 9801498 9801499
DOAKMW-2	9801510
DOAKMW-1	9801511
FLMW-204A	9801512
FLMW-205B	9801513
MW-203	9801514
TB 5/6	9801515

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

APR 1 3 1998

Water samples were received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- Data Completeness
- * GC/MS Tuning
- * Holding Times
- * Calibrations
- Laboratory Blanks
- * Field Blanks
- * Trip Blanks
- * System Monitoring Compound Recoveries
- * Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
- * Blank Spike
- * Compound Identification
- * Compound Quantitation
 - Method Detection Limit
- * Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Many of the pages were out of the reporting order specified in the NYS DEC ASP protocols.

The specific NYS DEC ASP forms for the instrument detection limits, "Sample Identification and Analytical Requirement Summary" (B-200) and "Sample Preparation and Analysis Summary" (B-201) were not included in the laboratory's analytical package, though similar form were submitted by the laboratory. The laboratory has been asked to submit the revised forms.

The minor problems with the matrix spike should be noted.

No other problems were found with the analyses of these samples which would affect the end use of the data.

Nancy J. Potak April 8, 1998

Holding Times

All samples were analyzed within the 10 day holding time required by the NYS DEC's ASP program.

Tunes

No problems were found with any of the instrument tunes.

The less stringent EPA tune requirements were noted on the laboratory's FORM V. All of the NYS DEC ASP tune requirements were met in the analyses of these samples.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were detected with either the initial or continuing calibrations.

Matrix Spike / Matrix Spike Duplicate

Sample MW-201 (Lab. #: 9801459) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the required quality assurance limits with the exceptions of the recoveries of the toluene matrix spike duplicate (160%) and the toluene RPD (35%). The data were not qualified for these problems with the spike recoveries and RPDs.

Blank Spike

All blank spike recoveries were within the required quality assurance limits.

A blank spike duplicate was also analyzed and all recoveries and RPDs in this sample were within the standard NYS DEC ASP volatile organic quality assurance limits.

Method Blanks

Methylene chloride (2J and 3J ug/l) were detected in both method blanks associated with the analyses of these samples. This compound was negated according to EPA data validation protocols whenever it was detected in a sample of this delivery group.

Trip Blank

Only low concentrations of methylene chloride were detected in each of the three trip blanks associated with the samples of this delivery group. This compound was negated in all of the trip blanks due to its presence in the associated method blank.

Field Blank

Only low concentrations of methylene chloride were detected in each of the three field blanks associated with the samples of this delivery group. This compound was negated in all of the field blanks due to its presence in the associated method blank.

Internal Standard Areas and Retention Times

All internal standard areas and retention times were within the required quality assurance limits.

Instrument Detection Limits

The laboratory's instrument detection limits were determined 8 months prior to the analyses of the samples of this delivery group. The NYS DEC ASP requires that these be determined every 6 months.

No other problems were detected with the laboratory's reported instrument detection limits.

Sample Results

The unknown non-target compounds were flagged with the "N" qualifier by the laboratory. This qualifier is reserved for non-target compounds whose identities have been positively confirmed by GC/MS. This qualifier should not be used with an unknown compound. The "N" qualifier was changed to a "J" qualifier in the data validation summary table. The laboratory has been asked to revise the non-target forms.

No other problems were found with the reported results of any of the samples of this delivery group.

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnote
Sample FLMW206A (Lab. #: 9801435)	Received 2/10				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	3 J	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1.1-Dichloroethene	10 U	2 J	2 J		
1,1-Dichloroethane	10 U	12	12		
1,2-Dichloroethene (total)	10 U	110	113		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1.1.1-Trichloroethane	10 U	38	38		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	45	45		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	8 J	8 J		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
mple DOALWM-3 (Lab. #: 9801436)	Received 2/10				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	3 J	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	1 J	1 J		
1,1-Dichloroethane	10 U	25	25		
1,2-Dichloroethene (total)	10 U	94	94		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	39	39		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	29	27		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10	10		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chiorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnote
Sample MW-201 (Lab. #: 9801459) Re	ceived 2/11				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	3 J	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1.1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	3 J	3 J		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	2 J	2 J		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	9 J	9 J		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Sample / Analyte CPPB CPPB Decision		Method Blank Conc.	Lab. Reported Conc.	QA Validation Reported Conc.	Qualifiers	Footnotes
TCL Volatile Organics	Sample / Analyte	(PPB)	(PPB)	Decision		
Chloromethane	ield Blank - 1 (Lab. #: 9801460) Receive	ed 2/11				
Bromomethane	TCL Volatile Organics	(Undiluted)				
Vinyl Chloride	Chloromethane	10 U	10 U	10 U		
Chioroethane	Bromomethane	10 U	10 U	10 U		
Methylene Chloride 3 J 2 JB 2 JB negate 1 Acetone 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 11 U 10 U 11 U 11 U 11 U 11 U 10 U	Vinyl Chloride	10 U	10 U	10 U		
Acetone	Chloroethane	10 U	10 U	10 U		
Carbon Disulfide 10 U 10 U 10 U 10 U 11 U 11 U 11 U 11	Methylene Chloride	3 J	2 JB	2 JB	negate	1
1,1-Dichloroethene 10 U 10 U 10 U 1,1-Dichloroethane 10 U 10 U 10 U 1,2-Dichloroethene (total) 10 U 10 U 10 U Chloroform 10 U 10 U 10 U 1,2-Dichloroethane 10 U 10 U 10 U 2-Butanone 10 U 10 U 10 U 2-Butanone 10 U 10 U 10 U Carbon Tetrachloride 10 U 10 U 10 U Bromodichloromethane 10 U 10 U 10 U 1,2-Dichloropropane 10 U 10 U 10 U cis-1,3-Dichloropropene 10 U 10 U 10 U Tichloroethene 10 U 10 U 10 U Dibromochloromethane 10 U 10 U 10 U J,1,2-Tichloroethane 10 U 10 U 10 U Benzene 10 U 10 U 10 U Bromoform 10 U 10 U 10 U 4-Methyl-2-Pentanone 10 U 10 U 10 U 2-Hexanone 10 U 10 U 10 U Tetrachloroet	Acetone	10 U	10 U	10 U		
1,1-Dichloroethane 10 U 1	Carbon Disulfide	10 U	10 U	10 U		
1,2-Dichloroethene (total)	1,1-Dichloroethene	10 U	10 U	10 U		
Chloroform 10 U 10 U 10 U 10 U 10 U 10 U 1.2-Dirchloroethane 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10	1,1-Dichloroethane	10 U	10 U	10 U		
Chloroform 10 U 10 U 10 U 10 U 10 U 1.2-Dirchloroethane 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10	1,2-Dichloroethene (total)	10 U	10 U	10 U		
2-Butanone 10 U 10 U 10 U 10 U 10 U 10 U 10 U 1.1.1-Trichloroethane 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10		10 U	10 U	10 U		
1.1.1-Trichloroethane 10 U 10 U 10 U Carbon Tetrachloride 10 U 10 U 10 U Bromodichloromethane 10 U 10 U 10 U 1,2-Dichloropropane 10 U 10 U 10 U cis-1,3-Dichloropropene 10 U 10 U 10 U Trichloroethene 10 U 10 U 10 U Dibromochloromethane 10 U 10 U 10 U 1,1,2-Trichloroethane 10 U 10 U 10 U Benzene 10 U 10 U 10 U trans-1,3-Dichloropropene 10 U 10 U 10 U Bromoform 10 U 10 U 10 U 4-Methyl-2-Pentanone 10 U 10 U 10 U 2-Hexanone 10 U 10 U 10 U Tetrachloroethene 10 U 10 U 10 U 1,1,2,2-Tetrachloroethane 10 U 10 U 10 U Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U	1.2-Dichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride 10 U <td< td=""><td>2-Butanone</td><td>10 U</td><td>10 U</td><td>10 U</td><td></td><td></td></td<>	2-Butanone	10 U	10 U	10 U		
Carbon Tetrachloride 10 U<	1.1.1-Trichloroethane	10 U	10 U	10 U		
1,2-Dichloropropane 10 U 10 U 10 U cis-1,3-Dichloropropene 10 U 10 U 10 U Trichloroethene 10 U 10 U 10 U Dibromochloromethane 10 U 10 U 10 U 1,1,2-Trichloroethane 10 U 10 U 10 U Benzene 10 U 10 U 10 U trans-1,3-Dichloropropene 10 U 10 U 10 U Bromoform 10 U 10 U 10 U 4-Methyl-2-Pentanone 10 U 10 U 10 U 2-Hexanone 10 U 10 U 10 U Tetrachloroethene 10 U 10 U 10 U 1,1,2,2-Tetrachloroethane 10 U 10 U 10 U Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Non-Target Volatile Organics		10 U	10 U	10 U		
1,2-Dichloropropane 10 U 10 U 10 U cis-1,3-Dichloropropene 10 U 10 U 10 U Trichloroethene 10 U 10 U 10 U Dibromochloromethane 10 U 10 U 10 U 1,1,2-Trichloroethane 10 U 10 U 10 U Benzene 10 U 10 U 10 U Bromoform 10 U 10 U 10 U 4-Methyl-2-Pentanone 10 U 10 U 10 U 2-Hexanone 10 U 10 U 10 U Tetrachloroethene 10 U 10 U 10 U 1,1,2,2-Tetrachloroethane 10 U 10 U 10 U Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Non-Target Volatile Organics	Bromodichloromethane	10 U	10 U	10 U		
cis-1,3-Dichloropropene 10 U		10 U	10 U	10 U		
Trichloroethene 10 U 10 U 10 U Dibromochloromethane 10 U 10 U 10 U 1,1,2-Trichloroethane 10 U 10 U 10 U Benzene 10 U 10 U 10 U trans-1,3-Dichloropropene 10 U 10 U 10 U Bromoform 10 U 10 U 10 U 4-Methyl-2-Pentanone 10 U 10 U 10 U 2-Hexanone 10 U 10 U 10 U Tetrachloroethene 10 U 10 U 10 U 1,1,2,2-Tetrachloroethane 10 U 10 U 10 U Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Non-Target Volatile Organics 10 U 10 U 10 U		10 U	10 U	10 U		
Dibromochloromethane 10 U 10 U 10 U 1,1,2-Trichloroethane 10 U 10 U 10 U Benzene 10 U 10 U 10 U trans-1,3-Dichloropropene 10 U 10 U 10 U Bromoform 10 U 10 U 10 U 4-Methyl-2-Pentanone 10 U 10 U 10 U 2-Hexanone 10 U 10 U 10 U Tetrachloroethene 10 U 10 U 10 U 1,1,2,2-Tetrachloroethane 10 U 10 U 10 U Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Non-Target Volatile Organics		10 U	10 U	10 U		
1,1,2-Trichloroethane 10 U 10 U 10 U Benzene 10 U 10 U 10 U trans-1,3-Dichloropropene 10 U 10 U 10 U Bromoform 10 U 10 U 10 U 4-Methyl-2-Pentanone 10 U 10 U 10 U 2-Hexanone 10 U 10 U 10 U Tetrachloroethene 10 U 10 U 10 U 1,1,2,2-Tetrachloroethane 10 U 10 U 10 U Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Xylene (total) 10 U 10 U 10 U		10 U	10 U			
Benzene 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10						
trans-1,3-Dichloropropene 10 U 10 U 10 U Bromoform 10 U 10 U 10 U 4-Methyl-2-Pentanone 10 U 10 U 10 U 2-Hexanone 10 U 10 U 10 U Tetrachloroethene 10 U 10 U 10 U 1,1,2,2-Tetrachloroethane 10 U 10 U 10 U Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Xylene (total) 10 U 10 U 10 U	, ,	· -	· -			
Bromoform 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10						
4-Methyl-2-Pentanone 10 U 10 U 10 U 10 U 2-Hexanone 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10						
2-Hexanone 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10						
Tetrachloroethene 10 U 10 U 10 U 1,1,2,2-Tetrachloroethane 10 U 10 U 10 U Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Xylene (total) 10 U 10 U 10 U	•					
1,1,2,2-Tetrachloroethane 10 U 10 U 10 U Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Xylene (total) 10 U 10 U 10 U						
Toluene 10 U 10 U 10 U Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Xylene (total) 10 U 10 U 10 U						
Chlorobenzene 10 U 10 U 10 U Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Xylene (total) 10 U 10 U 10 U						
Ethylbenzene 10 U 10 U 10 U Styrene 10 U 10 U 10 U Xylene (total) 10 U 10 U 10 U Non-Target Volatile Organics 10 U 10 U 10 U						
Styrene 10 U 10 U 10 U Xylene (total) 10 U 10 U 10 U Non-Target Volatile Organics 10 U 10 U 10 U						
Xylene (total) 10 U 10 U 10 U Non-Target Volatile Organics	•					
	Non-Target Volatile Organics					
		ND	8 N	8 N		

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnote
Field Blank - 2 (Lab. #: 9801461) Rece	eived 2/11				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	2 J	2 JB	2 JB	negate	1
Acetone	10 U	10 U	10 U	•	
Carbon Disulfide	10 U	10 U	10 U		
1.1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
mple FLMW205A (Lab. #: 9801462) I		(PFB)	Decision		-
	(Undiluted)				
TCL Volatile Organics	(Originated) 10 U	10 U	10 U		
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride		10 U			
Chlcroethane	10 U		10 U		
Methylene Chloride	3 J	10 U	10 U		
Acetone	10 U 10 U	10 U 10 U	10 U 10 U		
Carbon Disulfide					
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	98	98		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	7 J	7 J		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	36	36		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	3 J	3 J		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10	10		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	4 J	4 J		

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997 Sample Delivery Group: 8342

			QA		
	Method	Lab.	Validation		
	Blank	Reported	Reported		
	Conc.	Conc.	Conc.	Qualifiers	Footnotes
Sample / Analyte	(PPB)	(PPB)	Decision		

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Sample / Analyte	(PPB)	(PPB)	Decision		
mple FLMW205D (Lab. #: 9801463)	Received 2/11				
TCL Volatile Organics	(Undiluted) 10 U	10 U	10 U		
Chloromethane		10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U				
Methylene Chloride	3 J	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	120	120		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	8 J	8 J		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	42	42		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	3 J	3 J		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
if the improvement	.5 4	·	· - -		

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

10 U

Non-Target Volatile Organics None Detected

Toluene

Styrene

Chlorobenzene

Ethylbenzene

Xylene (total)

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
p Blank 1/2 (Lab. #: 9801465) Received 2/	11				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chioroethane	10 U	10 U	10 U		
Methylene Chloride	3 J	2 JB	2 JB	negate	1
Acetone	10 U	10 U	10 U	<u> </u>	
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1.2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1.1.1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997 Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	Validation Reported Conc. Decision	Qualifiers	Footnote				
Sample FLMW206B (Lab. #9801496) Recevied 2/12									
TCL Volatile Organics	(Undiluted)								
Chloromethane	10 U	10 U	10 U						
Bromomethane	10 U	10 U	10 U						
Vinyl Chloride	10 U	10 U	10 U						
Chloroethane	10 U	10 U	10 U						
Methylene Chloride	2 J	2 JB	2 JB	negate	1				
Acetone	10 U	10 U	10 U	•					
Carbon Disulfide	10 U	10 U	10 U						
1,1-Dichloroethene	10 U	18	18						
1,1-Dichloroethane	10 U	28	28						
1,2-Dichloroethene (total)	10 U	23	23						
Chloroform	10 U	1 J	1 J						
1,2-Dichloroethane	10 U	10 U	10 U						
2-Butanone	10 U	10 U	10 U						
1,1,1-Trichloroethane	10 U	49	49						
Carbon Tetrachloride	10 U	10 U	10 U						
Bromodichloromethane	10 U	10 U	10 U						
1,2-Dichloropropane	10 U	10 U	10 U						
cis-1,3-Dichloropropene	10 U	10 U	10 U						
Trichloroethene	10 U	34	34						
Dibromochloromethane	10 U	10 U	10 U						
1,1,2-Trichloroethane	10 U	10 U	10 U						
Benzene	10 U	10 U	10 U						
trans-1,3-Dichloropropene	10 U	10 U	10 U						
Bromoform	10 U	10 U	10 U						
4-Methyl-2-Pentanone	10 U	10 U	10 U						
2-Hexanone	10 U	10 U	10 U						
Tetrachloroethene	10 U	47	47						
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U						
Toluene	10 U	2 J	2 J						
Chlorobenzene	10 U	10 U	10 U						
Ethylbenzene	10 U	10 U	10 U						
Styrene	10 U	10 U	10 U						
Xylene (total)	10 U	10 U	10 U						

QA

Non-Target Volatile Organics

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
mple MW-202 (Lab.#: 9801497) Re					
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	2 J	1 JB	1 JB	negate	1
Acetone	10 U	10 U	10 U	_	
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	55	55		
1,2-Dichloroethene (total)	10 U	8 J	8 J		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	49	49		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	4 J	4 J		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	14	14		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997 Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnote
mple FLMW202B (Lab. #: 9801498)	Received 2/12				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	2 J	1 JB	1 JB	negate	1
Acetone	10 U	10 U	10 U	•	
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	2 J	2 J		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	3 J	3 J		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	19	19		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	38	38		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	2 J	2 J		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics None Detected

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample / Analyte	(PPB)	(PPB)	Decision		Footnotes
mple FLMW204B (Lab. #: 9801499) Rec			DC0(01011		
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	2 J	1 JB	1 JB	negate	1
Acetone	10 U	10 U	10 U		•
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	1 J	1 J		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	6 J	6 J		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	5 J	5 J		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	35	35		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	33	33		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
Unknown (11.57)	ND	9 N	L 6	See Text	

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

	Method Blank Conc.	Lab. Reported Conc.	QA Validation Reported Conc.	Qualifiers	Footnote
Sample / Analyte	(PPB)	(PPB)	Decision		
p Blank 3/4 (Lab/ #: 9801500) Rece	ived 2/12				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	2 J	5 JB	5 JB	negate	1
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1.2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics None Detected

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Non-Target Volatile Organics

None Detected

	Method Blank Conc.	Lab. Reported Conc.	QA Validation Reported Conc.	Qualifiers	Footnotes
Sample / Analyte	(PPB)	(PPB)	Decision		
mple DOAKMW-2 (Lab. #: 9801510)	Received 2/13				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	2 J	2 JB	1 JB	negate	1
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	4 J	4 J		
1,1-Dichloroethane	10 U	8 J	8 J		
1,2-Dichloroethene (total)	10 U	1 J	1 J		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	43	43		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	4 J	4 J		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	15	15		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	2 J	2 J		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

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Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997 Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	Validation Reported Conc. Decision	Qualifiers	Footnote	
Sample DOAKWM-1 (Lab. #: 9801511) Recevied 2/13						
TCL Volatile Organics	(Undiluted)					
Chloromethane	10 U	10 U	10 U			
Bromomethane	10 U	10 U	10 U			
Vinyl Chloride	10 U	10 U	10 U			
Chloroethane	10 U	10 U	10 U			
Methylene Chloride	2 J	1 JB	1 JB	negate	1	
Acetone	10 U	10 U	10 U	_		
Carbon Disulfide	10 U	10 U	10 U			
1.1-Dichloroethene	10 U	8 J	8 J			
1,1-Dichloroethane	10 U	6 J	6 J			
1,2-Dichloroethene (total)	10 U	7 J	7 J			
Chloroform	10 U	10 U	10 U			
1,2-Dichloroethane	10 U	10 U	10 U			
2-Butanone	10 U	10 U	10 U			
1,1,1-Trichloroethane	10 U	53	53			
Carbon Tetrachloride	10 U	10 U	10 U			
Bromodichloromethane	10 U	10 U	10 U			
1,2-Dichloropropane	10 U	10 U	10 U			
cis-1,3-Dichtoropropene	10 U	10 U	10 U			
Trichloroethene	10 U	6 J	6 J			
Dibromochloromethane	10 U	10 U	10 U			
1,1,2-Trichloroethane	10 U	10 U	10 U			
Benzene	10 U	10 U	10 U			
trans-1,3-Dichloropropene	10 U	10 U	10 U			
Bromoform	10 U	10 U	10 U			
4-Methyl-2-Pentanone	10 U	10 U	10 U			
2-Hexanone	10 U	10 U	10 U			
Tetrachloroethene	10 U	56	56			
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U			
Toluene	10 U	8 J	8 J			
Chlorobenzene	10 U	10 U	10 U			
Ethylbenzene	10 U	10 U	10 U			
Styrene	10 U	10 U	10 U			
Xylene (total)	10 U	2 J	2 J			
Non-Target Volatile Organics						
Unknown Hydrcarbon (9.08)	ND	7 N	7 J	See text		

QA

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

	Method Blank Conc.	Lab. Reported Conc.	QA Validation Reported Conc.	Qualifiers	Footnotes
Sample / Analyte	(PPB)	(PPB)	Decision		
imple FLMW204A (Lab. #: 9801512)	Received 2/13				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	2 J	10 U	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	5 J	5 J		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	7 J	7 J		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	14	14		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	2 J	2 J		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Non-Target Volatile Organics

None Detected

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997 Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnote
mple FLM205B (Lab. #: 9801513) Re	ceived 2/13				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	2 J	2 JB	2 JB	negate	1
Acetone	10 U	10 U	10 U	•	
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	21	21		
1,1-Dichloroethane	10 U	13	13		
1,2-Dichloroethene (total)	10 U	32	32		
Chloroform	10 U	3 J	10 J		
1.2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	65	65		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	99	99		
Dibromochloromethane	10 U	10 U	10 U		
1.1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	110	114		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	6 J	6 J		
Chlorobenzene	10 U	10 U	10 U		
	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene Xylene (total)	10 U	10 U	10 U		
Non-Target Volatile Organics					
Unknown Hydrocarbon (9.05)	ND	5 N	5 J	See Text	

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997 Sample Delivery Group: 8342

None Detected

	Method Blank Conc.	Lab. Reported Conc.	Validation Reported Conc.	Qualifiers	Footnotes
Sample / Analyte	(PPB)	(PPB)	Decision		
mple MW-203 (Lab. #: 9801514) Re	ceived 2/13				
TCL Volatile Organics	(Undiluted)				
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	2 J	2 JB	2 JB	negate	1
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	8 J	L 8		
1,2-Dichloroethene (total)	10 U	66	66		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	21	21		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	14	15		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 U	10 U	10 U		
2-Hexanone	10 U	10 U	10 U		
Tetrachloroethene	10 U	11	11		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	12	12		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997 Sample Delivery Group: 8342

None Detected

Sample / Analyte	Method Blank Conc. (PPB)	QA Lab. Validation Reported Reported Conc. Conc. (PPB) Decision		Qualifiers	Footnotes	
p Blank 5/6 (Lab. #: 9801515) Rece	eived 2/13					
TCL Volatile Organics	(Undiluted)					
Chloromethane	10 U	10 U	10 U			
Bromomethane	10 U	10 U	10 U			
Vinyl Chloride	10 U	10 U	10 U			
Chloroethane	10 U	10 U	10 U			
Methylene Chloride	2 J	4 JB	4 JB	negate	1	
Acetone	10 U	10 U	10 U			
Carbon Disulfide	10 U	10 U	10 U			
1,1-Dichloroethene	10 U	10 U	10 U			
1,1-Dichloroethane	10 U	10 U	10 U			
1,2-Dichloroethene (total)	10 U	10 U	10 U			
Chloroform	10 U	10 U	10 U			
1,2-Dichloroethane	10 U	10 U	10 U			
2-Butanone	10 U	10 U	10 U			
1,1,1-Trichloroethane	10 U	10 U	10 U			
Carbon Tetrachloride	10 U	10 U	10 U			
Bromodichloromethane	10 U	10 U	10 U			
1,2-Dichloropropane	10 U	10 U	10 U			
cis-1,3-Dichloropropene	10 U	10 U	10 U			
Trichloroethene	10 U	10 U	10 U			
Dibromochloromethane	10 U	10 U	10 U			
1,1,2-Trichloroethane	10 U	10 U	10 U			
Benzene	10 U	10 U	10 U			
trans-1,3-Dichloropropene	10 U	10 U	10 U			
Bromoform	10 U	10 U	10 U			
4-Methyl-2-Pentanone	10 U	10 U	10 U			
2-Hexanone	10 U	10 U	10 U			
Tetrachloroethene	10 U	10 U	10 U			
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U			
Toluene	10 U	10 U	10 U			
Chlorobenzene	10 U	10 U	10 U			
Ethylbenzene	10 U	10 U	10 U			
Styrene	10 U	10 U	10 U			
Xylene (total)	10 U	10 U	10 U			

DATA VALIDATION WORKSHEETS NYSDEC LAKA

Water Volatile Organic Analyses - Method 95-1 Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342 Laboratory Reference Numbers:

9801435
9801436
9801459
9801460
9801461
9801462
9801463
9801464
9801465
9801496
9801497
9801496
9801497
9801498
9801499
9801500
9801510
9801511
9801512
9801513
9801514
9801515

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: HP5970BC Level: Low

Tune File ID: C6911 Acceptable: yes Time Requirements Met: yes

Initial Calibration File ID: C6912 Date: 02/06/98 Page: V-363

Associated Samples: VBLKC09, FB-1, TB-1/2, FLMW206A, DOAKMW-3, MW-201, FLMW205A, FLMW205D, MW201MS, MW201MSD, VBLKMS, VBLKMSD, VBLKC10, FB-2, TB-3/4, TB-5/6, FLMW206B, MW-202, FLMW202B, FLMW204B, DOAKMW-2, DOAKMW-1, FLMW204A, FLMW205B, MW-203

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300

 Surrogates:
 Toluene-d8
 <30.0</td>
 >0.01

 Bromofluorobenzene *
 <20.5</td>
 >0.20

 1,2-Dichloroethane-d4
 <30.0</td>
 >0.01

All Compounds Average RRF >QC Limit: yes

All Compounds Average RRF > 0.05: yes Footnote:

All Compounds %RSD < QC Limit: yes

All Compounds %RSD < 100%: yes Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	1,1-Dichloroethene	Trichloroethene
PPB		
10	12866/49994 * 5.000 = 1.287	22220/263868 * 5.000 = 0.421
20	24376/47045 * 2.500 = 1.295	44046/248381 * 2.500 = 0.443
50	73890/57912 * 1.000 = 1.276	128765/311472 * 1.000 = 0.413
100	115910/45714 * 0.500 = 1.268	192385/242414 * 0.500 = 0.397
200	246221/51003 * 0.250 = 1.027	404578/265259 * 0.250 = 0.381

OVERALL ASSESSMENT AND COMMENTS: ok

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: HP5970BC Level: Low

Tune File ID: C7028 Acceptable: yes Time Requirements Met: yes

Calibration File ID: C7029Date: 02/13/98Page: V-364Initial Calibration File ID: C6912Date: 02/06/98Page: V-363

Associated Samples: VBLKC09, FB-1, TB-1/2, FLMW206A, DOAKMW-3, MW-201, FLMW205A, FLMW205D,

MW201MS, MW201MSD, VBLKMS, VBLKMSD

TCL COMPOUND LIST

	%D	RRF			%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010	
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200	
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300	
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100	
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100	
Acetone	<100	>0.010	Benzene *	<25.0	>0.500	
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100	
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100	
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010	
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010	
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200	
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500	
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400	
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500	
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100	
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300	
			Xylenes (total)	<25.0	>0.300	

Surrogates:

Toluene-d8 <100 >0.01 Bromofluorobenzene * <25.0 >0.20 1,2-Dichloroethane-d4 <100 >0.01

All Compounds Average RRF >QC Limit: yes

All Compounds Average RRF > 0.01: yes Footnote: All Compounds %D < QC Limit: yes Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND: Chloroform Toluene

PPB

50 199801/52211 * 1.000 = 3.827 277206/223816 * 1.000 = 1.239

%D: (3.6925 - 3.8268) / 3.6925 * 100 = -3.63710223 %D: (1.2077 - 1.2385) / 1.2077 * 100 = -2.550302

METHOD BLANK: VBLKC09 (Page V-383)

Compoundppb<CRDL</th>Methylene Chloride3J10

OVERALL ASSESSMENT AND COMMENTS: ok

RRF

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: HP5970BC Level: Low

Tune File ID: C7045 Acceptable: yes Time Requirements Met: yes

Calibration File ID:C7046Date:02/17/98Page:V-365Initial Calibration File ID:C6912Date:02/06/98Page:V-363

Associated Samples: VBLKC10, FB-2, TB-3/4, TB-5/6, FLMW206B, MW-202, FLMW202B, FLMW204B,

DOAKMW-2, DOAKMW-1, FLMW204A, FLMW205B, MW-203

TCL COMPOUND LIST

%D RRF %D Chloromethane <100 >0.010 1,2-Dichloropropane <100 >0.010 Bromomethane * <25.0 >0.100cis-1,3-Dichloropropene * <25.0 >0.200 Vinyl Chloride * <25.0 >0.100 Trichloroethene * <25.0 >0.300 Chloroethane <100 >0.010 Dibromochloromethane * <25.0 >0.100 Methylene Chloride <100 >0.010 1,1,2-Trichloroethane * <25.0 >0.100Acetone <100 >0.010 Benzene * <25.0 >0.500 <25.0 Carbon Disulfide <100 >0.010 trans-1,3-Dichloropropene * >0.100 1,1-Dichloroethene * >0.100 Bromoform * <25.0 <25.0 >0.100 4-Methyl-2-Pentanone 1,1-Dichloroethane * <25.0 >0.200 <100 >0.010 1,2-Dichloroethene (total) <100 >0.010 2-Hexanone <100 >0.010 Chloroform * <25.0 >0.200 Tetrachloroethene * <25.0 >0.200 1.2-Dichloroethane * <25.0 >0.100 1.1.2.2-Tetrachloroethane * <25.0 >0.500 2-Butanone <100 >0.010 Toluene * <25.0 >0.400 1,1,1-Trichloroethane * <25.0 >0.100 Chlorobenzene * <25.0 >0.500 Carbon Tetrachloride * >0.100 Ethylbenzene * <25.0 <25.0 >0.100 Styrene * Bromodichloromethane * <25.0 >0.200 <25.0 >0.300 Xylenes (total) <25.0 >0.300

Surrogates:

Toluene-d8 <100 >0.01 Bromofluorobenzene * <25.0 >0.20 1,2-Dichloroethane-d4 <100 >0.01

All Compounds Average RRF >QC Limit:

All Compounds Average RRF > 0.01: Footnote:
All Compounds %D < QC Limit: Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND: 1,1-Dichloroethane Toluene

PPB

50 174850/64101 * 1.000 = 2.728 341666/282397 * 1.000 = 1.21

%D: (2.7878 - 2.7277) / 2.7878 * 100 = 2.15582179 %D: (1.2077 - 1.2099) / 1.2077 * 100 = -0.1821644

METHOD BLANK: VBLKC10 (Page V-397)

Compoundppb<CRDL</th>Methylene Chloride2J10

OVERALL ASSESSMENT AND COMMENTS: ok

FOOTNOTES FOR THE ORGANIC TARGET ANALYTE LIST

BLANK QUALIFIERS

1. The reported compound was less than 5 times (10 times for the common EPA contaminants) the value of the method (prep) blank. The presence of this compound in the sample has been negated.

SUMMARY OF THE ANALYTICAL DATA VALIDATION NYSDEC LAKA

Water TAL Inorganic Analyses Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342 Laboratory Reference Numbers:

FLMW-206A DOAL MW-3	9801435 9801436
DOAL WIVE-3	9601430
MW-201	9801459
MW-201MS	9801459MS
MW-201MSD	9801459MSD
FLMW-205A	9801462
FLMW-205D	9801463
FB	9801464
FLMW-206B	9801496
MW-202	9801497
FLM-202B	9801496
MW-202	9801497
FLMW-202B	9801498
FLMW-204B	9801499
DOAKMW-2	9801510
DOAKMW-1	9801511
FLMW-204A	9801512
FLMW-205B	9801513
MW-203	9801514

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

APR 1 3 1998

n -- * 32 Andous Waste Section

Water samples were received for TAL metals analyses by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * Data Completeness
- * Holding Times
- * Calibration Verification
 - CRDL Standard
- * Laboratory Control Sample
 - Serial Dilutions
- * Calibration Blanks
 - Field Blanks
 - Preparation Blanks
 - Matrix Spike
 - Duplicate Analyses
- * ICP Interference Check Sample
- * Detection Limit Results
- * Linear Range
 - Furnace Atomic Absorption Results
 - Sample Results

Data Validation Summary

The concentration of chromium in the method blank (10.5 ug/l) was just above the 10 ug/l CRDL. The NYS DEC ASP quality assurance manual states that "all samples associated with the blank with the analyte's concentration less than 10x the blank concentration and above the CRDL, must be redigested and reanalyzed for that analyte". This was not done in the case of chromium. All of the chromium concentrations less than 100 ug/l were flagged with the "R" qualifier and footnoted with #1 in the data validation summary table.

The problems with the recoveries of the CRDL standards, serial dilutions and matrix duplicates should be noted by all end users of the data. These are discussed in detail below.

No other problems were found which would affect the end use of the data.

Nancy J. Potak April 9, 1998

^{* -} Indicates that all criteria were met for this parameter.

Holding Times

All samples were analyzed within the required holding times.

CRDL Standards

The recoveries of all CRDL standards in the first set were within the 80% to 120% quality assurance limits with the following exceptions in the second of the two ICP runs:

	Initial	Final
<u>Analyte</u>	% Recovery	% Recovery
Chromium	(ok)	134%
Zinc	(ok)	76%

Some of the low concentrations chromium may have been overestimated. The chromium data for these samples were flagged with the "J" qualifier and footnoted with #21 in the data validation summary table.

Some of the low concentrations zinc may have been underestimated. The zinc data for these samples were flagged with the "J" qualifier and footnoted with #21 in the data validation summary table.

Initial and Continuing Calibrations

No problems were detected with any of the calibrations associated with this sample delivery group.

Preparation Blank

The concentration of chromium in the method blank (10.5 ug/l) was just above the 10 ug/l CRDL. The NYS DEC ASP quality assurance manual states that "all samples associated with the blank with the analyte's concentration less than 10x the blank concentration and above the CRDL, must be redigested and reanalyzed for that analyte".

This was not done in the case of chromium. All of the chromium concentrations less than 100 ug/l were flagged with the "R" qualifier and footnoted with #1 in the data validation summary table.

Several other analytes were found in the preparation blanks at concentrations between the absolute value of CRDL and instrument detection limit. The data were not required to be qualified for these low concentrations.

Calibration Blanks

No compounds were detected in any of the calibration blanks associated with the analyses of these samples at concentrations above the CRDL.

Field Blank

Only a low concentration of iron (725 ug/l) was detected in the field blank at a concentration above the CRDL. The iron concentrations in the samples were too high to be affected by this concentration.

ICP Interference Check Sample

No problems were detected with the reported ICP Interference Check Sample recoveries.

Matrix Spike Recovery

Sample MW-201 (Lab. #: 9801459) of this sample delivery group was used for the total matrix spike for the full inorganic TCL analyte list. All recoveries were within the acceptable limits.

The initial analytical report submitted by the laboratory had flagged all of the ICP analytes in FORM I's with the "N" qualifier. This was a typographical error and corrected copies of the forms were received from the laboratory.

Duplicate Analysis

Sample MW-201 (Lab. #: 9801459) of sample delivery group 6831 was used for the total matrix duplicate for the full inorganic TCL analyte list. All recoveries which could be calculated were within the acceptable quality assurance limits with the following exception:

Analyte	RPD	Qualifier
Zinc	75%	43

The data for this analyte should be considered to be highly estimated values. The zinc data was flagged with the "J" qualifier and footnoted with #43 in the data validation summary table.

Laboratory Control Sample

No problems were detected with the recoveries of the water LCS standard.

Serial Dilutions

Sample MW-2 (Lab. #: 9717207) of sample delivery group 6829 was used for the total serial dilution analysis for the full inorganic TCL analyte list. All recoveries which could be calculated were within the acceptable quality assurance limits with the following exceptions:

Analyte	% Difference
Aluminum	26%
Barium	27%
Calcium	29%
Iron	28%
Magnesium	31%
Manganese	29%
Sodium	28%

The data for these analytes were flagged with the "J" qualifier and footnoted with #51 in the data validation summary table. The concentrations reported should be considered to be estimated values.

Instrument Detection Limit

No problems were found with the reported instrument detection limits.

ICP Linear Ranges

No problems were detected with the linear ranges. The reported concentrations of all samples in this delivery group were within their linear range for each analyte.

Furnace Analyses

Some of the thallium raw data was out of order (page I-259).

It appeared that some of the "W" qualifiers may have been omitted by the laboratory. These do not significantly affect the end use of the data.

Mercury Analyses

No problems were found with the mercury analyses.

Cyanide Analyses

No problems were found with the cyanide analyses

Sample Results

Aside from those mentioned above, no other problems were detected with any of the samples.

Water TAL Inorganic Analyses

Samples Received: February 10th through 13th, 1997

ample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)		QA Validation Reported Conc. Decision			Qualifiers	Footnotes
ample FLMW-206A	(Lab. #: 9801435)	Received 2/10						
Total Metals								
Aluminum	33.20 B	9,070.00	E	9,070.00	Ε	J	qualify	51
Antimony	29. 50 U	29.50 U		29.50 U				
Arsenic	2.00 U	2.00 U		2.00 U				
Barium	1.40 U	80.00 B	Ε	80.00 B	E	J	qualify	51
Beryllium	0.30 U	0.39 B		0.39 B				
Cadmium	5.80 U	5.80 U		5.80 U				
Calcium	32.00 B	21,800,00	Ε	21,800,00	Ε	J	qualify	51
Chromium	10.50	21.50		21,50		R	reject	1
Cobalt	7.30 U	7.30 U		7.30 U			•	
Copper	4.90 U	22.60 B		22.60 B				
Iron	22.50 U	21,400.00	E	21,400.00	Ε	J	qualify	51
Lead	2.30 U	11.10		11,10			, ,	
Magnesium	19.20 U	6,420.00	E	6,420.00	E	J	qualify	51
Manganese	2.10 U	116.00	E	116.00	E	J	qualify	51
Mercury	0.20 U	0.23		0.23			•	
Nickel	7.70 U	7.70 U		7.70 U				
Potassium	964.00 U	3,670.00 B		3,670.00 B				
Selenium	2.50 U	2.50 U		2.50 U				
Silver	6.60 U	10.40		10.40				
Sodium	139.00 U	6,710.00	Ε	6,710.00	Ε	J	qualify	51
Thallium	2.50 U	2.50 U		2.50 U			, ,	
Vanadium	6,60 U	47.00 B		47.00 B				
Zinc	11.60 U	26.40	*	26.40	*	j	qualify	43
Cyanide	1.68 B	3.40 B		3,35 B			,	
•	(Lab. #: 9801436)	Received 2/10						
Total Metals Aluminum			Е	4 000 00	Ε	J	qualify	
Antimony	22.20 D	4 ድርስ በስ						E1
MILLITUITY	33.20 B	1,600.00	-	1,600.00	L	J	quanty	51
•	29.50 U	29.50 U	_	29.50 U	L	J	quanty	51
Arsenic	29.50 U 2.00 U	29.50 U 2.00 U		29.50 U 2.00 U			, ,	
Arsenic Barium	29.50 U 2.00 U 1.40 U	29.50 U 2.00 U 45.20 B	E	29.50 U 2.00 U 45.20 B	E	j	qualify	51 51
Arsenic Barium Beryllium	29.50 U 2.00 U 1.40 U 0.30 U	29.50 U 2.00 U 45.20 B 0.30 U		29.50 U 2.00 U 45.20 B 0.30 U			, ,	
Arsenic Barium Beryllium Cadmium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U	E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U	E	J	qualify	51
Arsenic Barium Beryllium Cadmium Calcium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00		29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00			, ,	
Arsenic Barium Beryllium Cadmium Calcium Chromium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U	E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U	E	J	qualify	51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U	E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U	E	J	qualify	51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B	E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B	E	J	qualify	51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00	E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00	E	J	qualify	51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U	E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U	E E	j	qualify qualify qualify	51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B	E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B	E E E	j	qualify qualify qualify qualify	51 51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60	E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60	E E	j	qualify qualify qualify	51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20	E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20	E E E	j	qualify qualify qualify qualify	51 51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U	E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U	E E E	j	qualify qualify qualify qualify	51 51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B	E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B	E E E	j	qualify qualify qualify qualify	51 51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U	E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U	E E E	j	qualify qualify qualify qualify	51 51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 6.60 U	E E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 6.60 U	E E E E	J	qualify qualify qualify qualify qualify	51 51 51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 4,660.00	E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 6.60 U 4,660.00	E E E	j	qualify qualify qualify qualify	51 51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 139.00 U 2.50 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 4,660.00 2.50 U	E E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 6.60 U 4,660.00 2.50 U	E E E E	J	qualify qualify qualify qualify qualify	51 51 51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 139.00 U 139.00 U 2.50 U 6.60 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 4,660.00 2.50 U 7.10 B	E E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 4,660.00 2.50 U 7.12 B	E E E E	J	qualify qualify qualify qualify qualify	51 51 51 51 51
Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 139.00 U 2.50 U	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.40 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 4,660.00 2.50 U	E E E E	29.50 U 2.00 U 45.20 B 0.30 U 5.80 U 11,900.00 8.80 U 7.30 U 7.45 B 3,010.00 2.30 U 3,310.00 B 18.60 0.20 7.70 U 1,300.00 B 2.50 U 6.60 U 4,660.00 2.50 U	E E E E	J	qualify qualify qualify qualify qualify	51 51 51 51 51

Water TAL Inorganic Analyses

Samples Received: February 10th through 13th, 1997

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	***************************************	QA Validation Reported Conc. Decision			Qualifiers	Footnotes
Sample MW-201 (Lai	b.#: 9801459) Red	ceived 2/11						
Total Metals								
Aluminum	33.20 B	5,490.00	Ε	5,490.00	Ε	J	qualify	51
Antimony	29.50 U	29.50 U		29.50 U				
Arsenic	2.00 U	2.00 U		2.00 U				
Barium	1.40 U	122,00 B	Ε	122.00 B	Ε	J	qualify	51
Beryllium	0.30 U	0.51 B		0.51 B				
Cadmium	5.80 U	5.80 U		5.80 U				
Calcium	32.00 B	17,900.00	E	17,900.00	ε	J	qualify	51
Chromium	10.50	14.00		14.00		R	reject	1
Cobalt	7.30 U	7.30 U		7.30 U				
Copper	4.90 U	25.80		25.80				
Iron	22.50 U	13,000.00	Ε	13,000.00	E	J	qualify	51
Lead	2.30 U	12.70		12.70				
Magnesium	19.20 U	9,820.00	Ε	9,820.00	Ε	J	qualify	51
Manganese	2.10 U	298.00	Ε	298.00	E	J	qualify	51
Mercury	0.20 U	0.20 U		0.20 U				
Nickel	7.70 U	9.80 B		9.80 B				
Potassium	964.00 U	5,510.00		5,510.00				
Selenium	2.50 U	2.50 U		2.50 U				
Silver	6.60 U	6.60 U		6.60 U				
Sodium	139.00 U	29,800.00	E	29,800.00	Ε	J	qualify	51
Thallium	2.50 U	2.50 U		2.50 U				
Vanadium	6.60 U	22.00 B		22.00 B				
Zinc	11.60 U	64.30	*	64.30	*	J	qualify	43
				04,50				
Cyanide	1,68 B	3.40 B		3.40 B		·	455,	,-
Cyanide	1.68 B	3.40 B					4	,,
Cyanide	1.68 B	3.40 B					,/	,-
Cyanide Sample FLMW-205A	1.68 B	3.40 B	E		E	J	qualify	51
Cyanide Sample FLMW-205A Total Metals	1.68 B (Lab. #: 9801462)	3.40 B Received 2/11	E	3.40 B	E			
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10		3.40 B 54,600.00 29.50 U 18.10		J	qualify	51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00	E	3.40 B 54,600.00 29.50 U 18.10 363.00	E			
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B		3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B		J	qualify	51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40	E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40	E	J	qualify qualify	51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00		3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00		ĵ ĵ	qualify qualify qualify	51 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80	E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50	E	J	qualify qualify	51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B	E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B	E	ĵ ĵ	qualify qualify qualify	51 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60	E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60	E E	ĵ ĵ	qualify qualify qualify reject	51 51 51 1
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00	E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00	E	ĵ ĵ	qualify qualify qualify	51 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S	E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S	E E	J	qualify qualify qualify reject qualify	51 51 51 1
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00	E E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00	E E E	J J	qualify qualify qualify reject qualify qualify	51 51 51 1 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00 666.00	E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00	E E	J	qualify qualify qualify reject qualify	51 51 51 1
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00 666.00 0.20 U	E E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00 0.20 U	E E E	J J	qualify qualify qualify reject qualify qualify	51 51 51 1 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00 666.00 0.20 U 27.00 B	E E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00 0.20 U 27.00 B	E E E	J J	qualify qualify qualify reject qualify qualify	51 51 51 1 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00	E E E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00	E E E	J J	qualify qualify qualify reject qualify qualify	51 51 51 1 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16,60 B 86.60 117,000.00 73.00 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW	E E E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW	E E E	J J	qualify qualify qualify reject qualify qualify	51 51 51 1 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW 49.40	E E E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW 49.40	E E E	J J	qualify qualify qualify reject qualify qualify qualify	51 51 51 1 51 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW 49.40 26,100.00	E E E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW	E E E	J J	qualify qualify qualify reject qualify qualify	51 51 51 1 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00 666.00 0.20 U 27,00 B 6,420.00 2.50 UW 49.40 26,100.00 2.50 U	E E E E	3.40 B 54,600.00 29,50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW 49.40 26,100.00 2.50 U	E E E	JURJJ	qualify qualify qualify reject qualify qualify qualify	51 51 51 1 51 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW 49.40 26,100.00	E E E E	3.40 B 54,600.00 29.50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW 49.40 26,100.00	E E E	JURJJ	qualify qualify qualify reject qualify qualify qualify	51 51 51 1 51 51 51
Cyanide Sample FLMW-205A Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	1.68 B (Lab. #: 9801462) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	3.40 B Received 2/11 54,600.00 29.50 U 18.10 363.00 2.50 B 9.40 16,200.00 85.80 16.60 B 86.60 117,000.00 73.00 S 9,510.00 666.00 0.20 U 27,00 B 6,420.00 2.50 UW 49.40 26,100.00 2.50 U	E E E E	3.40 B 54,600.00 29,50 U 18.10 363.00 2.53 B 9.40 16,200.00 85.50 16.60 B 86.60 117,000.00 73.20 S 9,510.00 666.00 0.20 U 27.00 B 6,420.00 2.50 UW 49.40 26,100.00 2.50 U	E E E	JURJJ	qualify qualify qualify reject qualify qualify qualify	51 51 51 1 51 51 51

Water TAL Inorganic Analyses

Samples Received: February 10th through 13th, 1997

mple / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)		QA Validation Reported Conc. Decision			Qualifiers	Footnotes
mple FLMW-205D	(Lab. #: 9801463)	Received 2/11						
Total Metals								
Aluminum	33.20 B	49,300.00	E	49,300.00	Ε	J	qualify	51
Antimony	29.50 U	29.50 U		29.50 U				
Arsenic	2.00 U	13.60		13.60				
Barium	1.40 U	319.00	E	319.00	Ε	J	qualify	51
Beryllium	0.30 U	2.30 B		2.26 B				
Cadmium	5.80 U	7.10		7.10				
Calcium	32.00 B	12,600.00	Ε	12,600.00	Ε	J	qualify	51
Chromium	10.50	80.20		80.20		R	reject	1
Cobalt	7.30 U	16.90 B		16.90 B				
Copper	4.90 U	72.50		72.50				
Iron	22.50 U	99,300.00	Ε	99,300.00	Ε	J	qualify	51
Lead	2.30 U	73.20 S		73.60 S				
Magnesium	19.20 U	7,450.00	Ε	7,450.00	Ε	J	qualify	51
Manganese	2.10 U	565.00	E	565.00	Ε	Ĵ	qualify	51
Mercury	0.20 U	0.20 U		0.20 U				
Nickel	7.70 U	24.10 B		24.10 B				
Potassium	964.00 U	5,970.00		5,970.00				
Selenium	2.50 U	2.50 UW	1	2.50 UW				
Silver	6.60 U	41.10		41.10				
Sodium	139.00 U	19,300.00	Ε	19,300.00	Ε	J	qualify	51
Thallium	2.50 U	2.50 U		2.50 U			· · · · · · · · · · · · · · · · · · ·	
Vanadium	6.60 U	220.00		220.00				
Zinc	11.60 U	78.80	*	78.80	•	J	qualify	43
Cyanide	1.68 B	3.40 B		3.35 B		•	4,7	
•	9801464) Receive	d 2/11						
Total Metals	·		E	07 10 B	E		guelië.	E4
Total Metals Aluminum	33.20 B	97.10 B	E	97.10 B	E	J	qualify	51
Total Metals Aluminum Antimony	33.20 B 29.50 U	97.10 B 29.50 U	E	29.50 U	E	J	qualify	51
Total Metals Aluminum Antimony Arsenic	33.20 B 29.50 U 2.00 U	97.10 B 29.50 U 2.00 U		29.50 U 2.00 UW			. ,	
Total Metals Aluminum Antimony Arsenic Barium	33.20 B 29.50 U 2.00 U 1.40 U	97.10 B 29.50 U 2.00 U 1.40 U	E E	29.50 U 2.00 UW 1.40 U	E E	J	qualify qualify	51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U		29.50 U 2.00 UW 1.40 U 0.30 U			. ,	
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U	E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U	E	J	qualify	51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B		29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B			. ,	
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U	E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U	E	J	qualify	51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U	E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U	E	J	qualify	51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U	E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U	E	J J	qualify	51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00	E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00	E	J	qualify	51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U	E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U	E E	ĵ	qualify qualify qualify	51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B	E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B	E E E	n n	qualify qualify qualify qualify	51 51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U	E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U	E E	ĵ	qualify qualify qualify	51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 9.20 U	E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U	E E E	n n	qualify qualify qualify qualify	51 51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 9.20 U 7.70 U	E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U	E E E	n n	qualify qualify qualify qualify	51 51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 9.20 U 7.70 U 1,710.00 B	E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B	E E E	n n	qualify qualify qualify qualify	51 51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 9.20 U 7.70 U 1,710.00 B 2.50 U	E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U	E E E	n n	qualify qualify qualify qualify	51 51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 6.60 U	E E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 6.60 U	E E E E]]]	qualify qualify qualify qualify qualify	51 51 51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 6.60 U 263.00 B	E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 6.60 U 263.00 B	E E E	n n	qualify qualify qualify qualify	51 51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 139.00 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 6.60 U 263.00 B 2.50 U	E E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 263.00 B 2.50 U	E E E E]]]	qualify qualify qualify qualify qualify	51 51 51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 2.50 U 2.50 U 2.50 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 6.60 U 263.00 B 2.50 U 6.60 U	E E E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 263.00 B 2.50 U 6.60 U	E E E E	J	qualify qualify qualify qualify qualify	51 51 51 51 51
Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 139.00 U	97.10 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 6.60 U 263.00 B 2.50 U	E E E E	29.50 U 2.00 UW 1.40 U 0.30 U 5.80 U 132.00 B 8.80 U 7.30 U 4.90 U 725.00 2.30 U 27.20 B 2.10 U 0.20 U 7.70 U 1,710.00 B 2.50 U 263.00 B 2.50 U	E E E E]]]	qualify qualify qualify qualify qualify	51 51 51 51 51

Water TAL Inorganic Analyses

Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)		Validation Reported Conc. Decision			Qualifiers	Footnote
			-	Decition.				
Sample FLMW-206B	(Lab. #: 9801496)	Received 2/12						
Total Metals					_			
Aluminum	33.20 B	492.00	E	492.00	Ε	J	qualify	51
Antimony	29.50 U	29.50 U		29.50 U				
Arsenic	2.00 U	2.00 UW		2.00 UW	_			
Barium	1.40 U	101.00 B	Е	101.00 B	Ε	j	qualify	51
Beryllium	0.30 U	0.30 U		0.30 U				
Cadmium	5.80 U	5.80 U	-	5.80 U	_			
Calcium	32.00 B	15,300.00	E	15,300.00	E	J	qualify	51
Chromium	10.50	8.80 U		8.80 U				
Cobalt	7.30 U	7.30 U		7.30 U				
Copper	4.90 U	14.80 B	-	14.80 B	_			
fron	22.50 U	1,350.00	E	1,350.00	E	J	qualify	51
Lead	2.30 U	2.30 U	_	2.30 U				
Magnesium	19.20 U	6,190.00	E	6,190.00	E	J	qualify	51
Manganese	2.10 U	146.00	E	146,00	Ε	J	qualify	51
Mercury	0.20 U	0.20 U		0.20 U				
Nickel	7.70 U	7.70 U		7.70 U				
Potassium	964.00 U	3,460.00 B		3,460.00 B				
Selenium	2.50 U	2.50 U		2.50 U				
Silver	6.60 U	6.60 U		6.60 U	_			
Sodium	139.00 U	23,700.00	E	23,700.00	E	J	qualify	51
Thallium	2.50 U	2.50 UW		2.50 UW				
Vanadium	6 60 11	6 60 11						
	6.60 U	6.60 U		6,60 U				
Zinc Cyanide	11.60 U 1.68 B	42.70 5.10 B	*	42.70 5.07 B	*	J	qualify	21, 43
Zinc Cyanide	11.60 U 1.68 B	42.70 5.10 B	*	42.70	*	J	qualify	21, 43
Zinc Cyanide	11.60 U 1.68 B	42.70 5.10 B	*	42.70	*	J	qualify	21, 43
Zinc Cyanide Sample MW-202 (Lab Total Metals	11.60 U 1.68 B o. #: 9801497) Rec	42.70 5.10 B eived 2/12	*	42.70 5.07 B				
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum	11.60 U 1.68 B o. #: 9801497) Rec 33.20 B	42.70 5.10 B eived 2/12 5,010.00	* E	42.70 5.07 B 5,010.00	* E	J	qualify qualify	21, 43 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony	11.60 U 1.68 B o. #: 9801497) Rec 33.20 B 29.50 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U	* E	42.70 5.07 B 5,010.00 29.50 U				
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic	11.60 U 1.68 B b. #: 9801497) Rec 33.20 B 29.50 U 2.00 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U		42.70 5.07 B 5,010.00 29.50 U 2.00 U	E	J	qualify	51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barìum	11.60 U 1.68 B b. #: 9801497) Rec 33.20 B 29.50 U 2.00 U 1.40 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B	E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B				
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium	11.60 U 1.68 B b. #: 9801497) Rec 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U		42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U	E	J	qualify	51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	11.60 U 1.68 B b. #: 9801497) Rec 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U	E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U	E	J	qualify qualify	51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	11.60 U 1.68 B b. #: 9801497) Rec 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00		42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00	E	J	qualify	51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	11.60 U 1.68 B 5. #: 9801497) Rec 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U	E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U	E	J	qualify qualify	51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	11.60 U 1.68 B 5. #: 9801497) Rec 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U	E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U	E	J	qualify qualify	51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	11.60 U 1.68 B 5. #: 9801497) Rec 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B	E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B	E E	1	qualify qualify qualify	51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	11.60 U 1.68 B 5. #: 9801497) Rec 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00	E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00	E	J	qualify qualify	51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	11.60 U 1.68 B 5. #: 9801497) Rec 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U	E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U	E E	1 1	qualify qualify qualify qualify	51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	11.60 U 1.68 B 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B	E E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	11.60 U 1.68 B 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90	E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90	E E	1 1	qualify qualify qualify qualify	51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury	11.60 U 1.68 B 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24	E E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel	11.60 U 1.68 B 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U	E E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium	11.60 U 1.68 B 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 22.50 U 2.30 U 19.20 U 21.10 U 0.20 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B	E E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5,80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium	11.60 U 1.68 B 3.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U	E E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium	11.60 U 1.68 B 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 2.50 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U 6.60 U	E E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U	E E E EE	1 1	qualify qualify qualify qualify qualify qualify	51 51 51 51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	11.60 U 1.68 B 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 2.50 U 2.50 U 2.50 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U 6.60 U 7,100.00	E E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U 6.60 U 7,100.00	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	11.60 U 1.68 B 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 2.50 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U 6.60 U 7,100.00 2.50 U	E E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U 6.60 U 7,100.00 2.50 U	E E E EE	1 1	qualify qualify qualify qualify qualify qualify	51 51 51 51 51 51
Zinc Cyanide Sample MW-202 (Lab Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	11.60 U 1.68 B 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 2.50 U 2.50 U 2.50 U	42.70 5.10 B eived 2/12 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.80 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U 6.60 U 7,100.00	E E E	42.70 5.07 B 5,010.00 29.50 U 2.00 U 62.80 B 0.30 U 5.80 U 20,400.00 8.54 U 7.30 U 14.80 B 9,280.00 2.30 U 4,370.00 B 30.90 0.24 7.70 U 3,450.00 B 2.50 U 6.60 U 7,100.00	E E E EE	1 1	qualify qualify qualify qualify qualify qualify	51 51 51 51 51 51

QA

Water TAL Inorganic Analyses

Samples Received: February 10th through 13th, 1997

mple / Analyte	Method Blank Conc. (PP8)	Lab. Reported Conc. (PPB)		QA Validation Reported Conc. Decision			Qualifiers	Footnotes
mple FLMW-202B	(Lab. #: 9801498)	Received 2/12				***		
Total Metals								
Aluminum	33,20 B	303.00	E	303.00	Ε	j	qualify	51
Antimony	29.50 U	29.50 U		29.50 U				
Arsenic	2.00 U	2.00 U		2.00 U				
Barium	1.40 U	54.90 B	Ε	54.90 B	Ε	J	qualify	51
Beryllium	0.30 U	0.30 U		0.30 U				
Cadmium	5.80 U	5.80 U		5.80 U				
Calcium	32.00 B	14,400.00	E	14,400.00	E	J	qualify	51
Chromium	10.50	8.80 U		8.80 U				
Cobalt	7.30 U	7.30 U		7.30 U				
Copper	4.90 U	14.60 B		14.60 B				
Iron	22,50 U	997.00	E	997.00	Ε	J	qualify	51
Lead	2.30 U	2.30 U		2.30 U				
Magnesium	19.20 U	5,170.00	E	5,170.00	Ε	J	qualify	51
Manganese	2.10 U	11.50 B	E	11.50 B	Ε	J	qualify	51
Mercury	0.20 U	0.20		0.20	_		4	
Nickel	7.70 U	7.70 U		7.70 U				
Potassium	964.00 U	23,300.00		23,300.00				
Selenium	2.50 U	2.50 U		2.50 U				
Silver	6.60 U	6.60 U		6.60 U				
Sodium	139.00 U	33,900.00	E	33,900.00	Ε	J	qualify	51
Thallium	2.50 U	2.50 UW	_	2.50 UW	_	J	-quanty	•
Vanadium	6.60 U	6.60 U		6.60 U				
Zinc	11.60 U	16.90 B	*	16.90 B	*	J	qualify	21, 43
Cyanide	1.68 B	5.90 B		5.93 B		·	quamy	21, 10
mple FLMW-204B	(Lab. #: 9801499)	Received 2/12						
Total Metals	00.00 5	244.00	_	244.00	_			51
Aluminum	33.20 B	214.00	E	214.00	Ε	J	qualify	51
Antimony		00 50 11		20.50.11				•
	29.50 U	29.50 U		29.50 U				
Arsenic	2.00 U	2.00 U	_	2.00 U	_	1		
Barium	2.00 U 1.40 U	2.00 U 95.20 N	E	2.00 U 95.20 N	Ε	J	qualify	51
Barium Beryllium	2.00 U 1.40 U 0.30 U	2.00 U 95.20 N 0.30 U	E	2.00 U 95.20 N 0.30 U	E	J	qualify	
Barium Beryllium Cadmium	2.00 U 1.40 U 0.30 U 5.80 U	2.00 U 95.20 N 0.30 U 5.80 U		2.00 U 95.20 N 0.30 U 5.80 U				51
Barium Beryllium Cadmium Calcium	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00	E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00	E	J	qualify	
Barium Beryllium Cadmium Calcium Chromium	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U		2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U				51
Barium Beryllium Cadmium Calcium Chromium Cobalt	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U		2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U				51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N	E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N	E	J	qualify	51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00		2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00				51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U	E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U	E	j	qualify	51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00	E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00	E E E	j j	qualify qualify qualify	51 51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00	E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00	E	j	qualify	51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U	E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U	E E E	j j	qualify qualify qualify	51 51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U	E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U	E E E	j j	qualify qualify qualify	51 51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N	E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N	E E E	j j	qualify qualify qualify	51 51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U	E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U	E E E	j j	qualify qualify qualify	51 51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U	E E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U	E E E	j	qualify qualify qualify qualify	51 51 51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U 23,900.00	E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8,80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U 23,900.00	E E E	j j	qualify qualify qualify	51 51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 139.00 U 2.50 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U 23,900.00 2.50 UW	E E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U 23,900.00 2.50 UW	E E E	j	qualify qualify qualify qualify	51 51 51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U 2.50 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U 23,900.00 2.50 UW 6.60 U	E E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U 23,900.00 2.50 UW 6.60 U	E E E	j	qualify qualify qualify qualify	51 51 51 51 51
Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 139.00 U 2.50 U	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U 23,900.00 2.50 UW	E E E	2.00 U 95.20 N 0.30 U 5.80 U 21,800.00 8.80 U 7.30 U 13.00 N 393.00 2.30 U 10,500.00 339.00 0.20 U 7.70 U 4,450.00 N 2.50 U 6.60 U 23,900.00 2.50 UW	E E E	j	qualify qualify qualify qualify	51 51 51 51 51

Water TAL Inorganic Analyses Samples Received: February 10th through 13th, 1997 Sample Delivery Group: 8342

Commission of America	Method Blank Conc.	Lab. Reported Conc.		QA Validation Reported Conc.			Qualifiers	Footnote
Sample / Analyte	(PPB)	(PPB)		Decision				
Sample DOAKMW-2	2 (Lab. #: 9801510)	Received 2/13						
Total Metals				4.040.00				
Alumin u m	33.20 B	1,210.00	E	1,210.00	E	j	qualify	51
Antimony	29.50 U	55.10 B		55.10 B				
Arsenic	2.00 U	2.00 U		2.00 U				
Barium	1.40 U	37.90 B	E	3 7 .90 B	Ε	J	qualify	51
Beryllium	0.30 U	0.30 U		0.30 U				
Cadmium	5.80 U	5.80 U		5.80 U				
Calcium	32.00 B	4,340.00 B	Ε	4,340.00 B	E	J	qualify	51
Chromium	10.50	8.80 U		8.80 U				
Cobalt	7.30 U	7.30 U		7.30 U				
Copper	4.90 U	6.10 B		6.10 B				
Iron	22.50 U	1,500.00	E	1,500.00	Ε	J	qualify	51
Lead	2.30 U	2.30 U		2.30 U			· · · · · · · ·	
Magnesium	19.20 U	2,150.00 B	Ε	2,150.00 B	Ε	J	qualify	51
Manganese	2.10 U	51.00	Ē	51.00	Ē	Ĵ	qualify	51
Mercury	0.20 U	0.20 U		0.20 U	h	Ü	quanty	5,
Nickel	7.70 U	12.60 B		12.60 B				
Potassium	964.00 U	2,290.00 B		2,290.00 B				
Selenium	2.50 U	2,290.00 B 2.50 U		2,290.00 B 2,50 U				
		6.60 U		6.60 U				
Silver	6.60 U		=		_			5 4
Sodium	139.00 U	5,320.00	E	5,320.00	E	J	qualify	51
Thallium	2.50 U	2.50 U		2.50 U				
Vanadium	6.60 U	6.60 U		6.60 U				
Vanadium Zinc Cyanide	6.60 U 11.60 U 1.68 B	6.60 U 219.00 6.80 B	*	6.60 U 219.00 6.78 B	٠	J	qualify	43
Zinc Cyanide	11.60 U 1.68 B	219.00 6.80 B	•	219.00	*	J	qualify	43
Zinc Cyanide	11.60 U	219.00 6.80 B	*	219.00	•	J	qualify	43
Zinc Cyanide Sample DOAKMW-1 Total Metals	11.60 U 1.68 B I (Lab. #: 9801511)	219.00 6.80 B Received 2/13		219.00 6.78 B				
Zinc Cyanide Sample DOAKMW-1	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B	219.00 6.80 B	* E	219.00	· E	j	qualify qualify	43 51
Zinc Cyanide Sample DOAKMW-1 Total Metals	11.60 U 1.68 B I (Lab. #: 9801511)	219.00 6.80 B Received 2/13		219.00 6.78 B				
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U	E	219.00 6.78 B 625.00 29.50 U 2.00 U	E	j		
Zinc Cyanide Sample DOAKMW-1 Tota! Metals Aluminum Antimony Arsenic Barium	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B		219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B				
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U	E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U	E	j	qualify	51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U	E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U	E	J	qualify qualify	51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U	E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U	E	j	qualify	51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U	E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U	E	J	qualify qualify	51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00	E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00	E	J	qualify qualify	51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U	E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U	E	J	qualify qualify	51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U	E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U	E	J	qualify qualify	51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U	E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U	E E	n n	qualify qualify qualify	51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00	E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00	E E	n n	qualify qualify qualify	51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U	E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U	E E E	1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B	E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B	E E E E	1 1 1	qualify qualify qualify qualify	51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25	E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U	E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B	E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U	E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver	11.60 U 1.68 B I (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U 6.60 U	E E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U	E E E E E	j j	qualify qualify qualify qualify qualify qualify	51 51 51 51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U 6.60 U 50,600.00	E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U 6.60 U 50,600.00	E E E E	1 1 1	qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U 2.50 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U 6.60 U 50,600.00 2.50 UW	E E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U 50,600.00 2.50 U	E E E E E	j j	qualify qualify qualify qualify qualify qualify	51 51 51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U 2.50 U 6.60 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U 6.60 U 50,600.00 2.50 UW 6.60 U	E E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U 50,600.00 2.50 UW 6.60 U	E E E E E]]]	qualify qualify qualify qualify qualify	51 51 51 51 51 51
Zinc Cyanide Sample DOAKMW-1 Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	11.60 U 1.68 B 1 (Lab. #: 9801511) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U 2.50 U	219.00 6.80 B Received 2/13 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U 6.60 U 50,600.00 2.50 UW	E E E E	219.00 6.78 B 625.00 29.50 U 2.00 U 129.00 B 0.30 U 5.80 U 12,100.00 8.80 U 7.30 U 4.90 U 718.00 2.30 U 4,940.00 B 300.00 0.25 7.70 U 3,480.00 B 2.50 U 50,600.00 2.50 U	E E E E E	j j	qualify qualify qualify qualify qualify qualify	51 51 51 51 51

Water TAL Inorganic Analyses

Samples Received: February 10th through 13th, 1997

mple / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)		QA Validation Reported Conc. Decision			Qualifiers	Footnotes
nple FLMW-204A(Lab. 9801512) Re	eceived 2/13						
Total Metals								
Aluminum	33.20 B	16,700.00	Ε	16,700.00	Ε	J	qualify	51
Antimony	29,50 U	29.50 U		29.50 U				
Arsenic	2.00 U	2.00 U		2.00 U				
Barium	1.40 U	108.00 B	Ε	108.00 B	Ε	J	qualify	51
Beryllium	0.30 U	4.70 B		4.69 B				
Cadmium	5.80 U	8.00		7.96				
Calcium	32.00 B	14,900.00	E	14,900.00	Ε	J	qualify	51
Chromium	10.50	39.70		39.70		R	reject	1, 21
Cobalt	7.30 U	7.30 U		7.30 U				
Copper	4.90 U	52.20		52.20				
Iron	22.50 U	39,000.00	Ε	39,000.00	Ε	J	qualify	51
Lead	2.30 U	16.20		16.20			•	
Magnesium	19.20 U	3,870.00 B	Ε	3,870.00 B	Ε	J	qualify	51
Manganese	2.10 U	234.00	E	234.00	Ε	J	qualify	51
Mercury	0.20 U	0.25		0.25			· •	
Nickel	7.70 U	26.00 B		26.00 B				
Potassium	964,00 U	2,770.00 B		2,770.00 B				
Selenium	2.50 U	2.50 U		2.50 U				
Silver	6.60 U	18.90		18.90				
Sodium	139.00 U	5,710.00	Ε	5,710.00	Ε	J	qualify	51
Thallium	2.50 U	2.50 U		2.50 U			4	
	6.60 U	71.90		71.90				
Vanadium	6.60 U 11.60 U	71.90 220.00	*	71.90 220.00		J	qualify	43
	6.60 U 11.60 U 1.68 B	71.90 220.00 4.20 B	*	71.90 220.00 4.21 B	٠	J	qualify	43
Vanadium Zinc Cyanide mple FLMW-205B(11.60 U 1.68 B	220.00 4.20 B	*	220.00	٠	J	qualify	43
Vanadium Zinc Cyanide mple FLMW-205B(Total Metals	11.60 U 1.68 B Lab. #: 9801513)	220.00 4.20 B Received 2/13		220.00 4.21 B				
Vanadium Zinc Cyanide mple FLMW-205B(Total Metals Aluminum	11.60 U 1.68 B Lab. #: 9801513)	220.00 4.20 B Received 2/13 846.00	E	220.00 4.21 B 846.00	• E	J	qualify qualify	43 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U	220.00 4.20 B Received 2/13 846.00 29.50 U	÷ E	220.00 4.21 B 846.00 29.50 U				
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U		220.00 4.21 B 846.00 29.50 U 2.00 U	E	J	qualify	51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B	E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B				
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B		220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B	E	J	qualify	51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U	E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U	E	J	qualify qualify	51 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00		220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00	E	J	qualify qualify qualify	51 51 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20	E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20	E	J	qualify qualify	51 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U	E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U	E	J	qualify qualify qualify	51 51 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B	E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B	E E	J J	qualify qualify qualify reject	51 51 51 1, 21
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00	E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00	E	J	qualify qualify qualify	51 51 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40	E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40	E E E	J J J	qualify qualify qualify reject qualify	51 51 51 1, 21 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00	E E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00	E E E E	J J J	qualify qualify qualify reject qualify qualify	51 51 51 1, 21 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00	E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00	E E E	J J J	qualify qualify qualify reject qualify	51 51 51 1, 21 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U	E E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U	E E E E	J J J	qualify qualify qualify reject qualify qualify	51 51 51 1, 21 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60	E E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U	E E E E	J J J	qualify qualify qualify reject qualify qualify	51 51 51 1, 21 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00	E E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00	E E E E	J J J	qualify qualify qualify reject qualify qualify	51 51 51 1, 21 51
Vanadium Zinc Cyanide mple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U	E E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U	E E E E	J J J	qualify qualify qualify reject qualify qualify	51 51 51 1, 21 51
Vanadium Zinc Cyanide Imple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U	E E E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U 6.60 U	E E E EE) S	qualify qualify reject qualify qualify qualify	51 51 51 1, 21 51 51
Vanadium Zinc Cyanide Imple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U 24,900.00	E E E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U 24,900.00	E E E E	J J J	qualify qualify qualify reject qualify qualify	51 51 51 1, 21 51
Vanadium Zinc Cyanide Imple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 139.00 U 2.50 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U 24,900.00 2.50 U 24,900.00	E E E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U 24,900.00 2.50 UW	E E E EE) S	qualify qualify reject qualify qualify qualify	51 51 51 1, 21 51 51
Vanadium Zinc Cyanide Imple FLMW-205B (Total Metals Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium	11.60 U 1.68 B Lab. #: 9801513) 33.20 B 29.50 U 2.00 U 1.40 U 0.30 U 5.80 U 32.00 B 10.50 7.30 U 4.90 U 22.50 U 2.30 U 19.20 U 2.10 U 0.20 U 7.70 U 964.00 U 2.50 U 6.60 U 139.00 U	220.00 4.20 B Received 2/13 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U 24,900.00	E E E E	220.00 4.21 B 846.00 29.50 U 2.00 U 99.80 B 0.48 B 5.80 U 14,000.00 15.20 7.30 U 18.80 B 1,240.00 4.40 6,180.00 546.00 0.20 U 52.60 6,040.00 2.50 U 24,900.00	E E E EE) S	qualify qualify reject qualify qualify qualify	51 51 51 1, 21 51 51

Water TAL Inorganic Analyses

Samples Received: February 10th through 13th, 1997

Sample Delivery Group: 8342

sample Delivery Gro	•			QA				
	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	Validation Reported Conc.				Qualifiers	Footnotes
Sample / Analyte			De	Decision				
ample MW-203 (Lat	o.#: 9801514) Re	ceived 2/13						
Total Metals								
Aluminum	33.20 B	30,800.00	Ε	30,800.00	Ε	J	qualify	51
Antimony	29.50 U	29.50 U		29.50 U				
Arsenic	2.00 U	34.10		314.00				
Barium	1.40 U	205.00	Ε	205.00	Ε	J	qualify	51
Beryllium	0.30 U	1.50 B		1.46 B				
Cadmium	5.80 U	5.80 U		5.80 U				
Calcium	32.00 B	28,700.00	Ε	28,700.00	Ε	J	qualify	51
Chromium	10.50	92.00		92.00		R	reject	1
Cobalt	7.30 U	10.30 B		10.30 B				
Copper	4.90 U	60.60		60.60				
Iron	22.50 U	66,400.00	E	66,400.00	Ε	J	qualify	51
Lead	2.30 U	48.60 S		48.80 S				
Magnesium	19.20 U	9,070.00	E	9,070.00	E	J	qualify	51
Manganese	2.10 U	2,000.00	E	2,000.00	E	J	qualify	51
Mercury	0.20 U	0.29		0.29				
Nickel	7.70 U	51.40		51.40				
Potassium	964.00 U	5,760.00		5,760.00				
Selenium	2.50 U	2.50 U		2.50 U				
Silver	6.60 U	27.10		27.10				
Sodium	139.00 U	28,400.00	E	28,400.00	Ε	J	qualify	51
Thallium	2.50 U	2.50 UW		2.50 UW				
Vanadium	6.60 U	163.00		163.00				
Zinc	11.60 U	57.40	*	57.20	•	J	qualify	43
Cyanide	1.68 B	3.40 B		3.35 B				

FOOTNOTES FOR THE INORGANIC TARGET ANALYTE LIST

BLANK QUALIFIERS

- 1. The value reported for the preparation blank is either greater than the CRDL when the IDL is less than or equal to the CRDL, or less than two times the IDL when the IDL is greater than the CRDL. All data greater than the CRDL concentration but less than ten times the preparation blank value are rejected (This footnote may also be applied to preparation blanks with concentrations less than the CRDL if low concentrations of TCL analytes could influence the end use of the data).
- 3. The inorganic value reported was greater than 10 times the value in the method (prep) blank and is considered to be "real" (J).
- 4. This analyte was qualified due to the negative value of the prep blank being greater than the absolute value of the CRDL. All associated sample results less than ten times the CRDL are rejected.
- 5. The value reported for the field blank is either greater than the CRDL when the IDL is less than or equal to the CRDL, or less than two times the IDL when the IDL is greater than the CRDL. All data greater than the CRDL concentration but less than five times the field blank value are negated. (This footnote may also be applied to preparation blanks with concentrations less than the CRDL if low concentrations of TCL analytes could influence the end use of the data.
- 6. The inorganic value reported was greater than 10 times the value in the method (prep) blank and is considered to be "real" (J).
- 8. This analyte was qualified due to the negative value of the calibration blank.
- 9. The inorganic value reported was less than 10 times the value in a calibration blank and the concentration in the calibration blank was greater than the CRDL. The reported value was negated due to probable contamination.
- 11. The inorganic value reported was greater than 10 times the value in a calibration blank and is considered "real" (J).
- 12. The result of this sample was qualified due to problem with a blank which was not included in the above footnotes. Refer to the text for discussion.
- 13. The result of this sample was rejected due to a severe problem with the blank which was not included in the above footnotes. Refer to the text for discussion.

CALIBRATION REQUIREMENTS

- 15. The calibration used for this analyte could not be followed. All results should be considered tentative until the discrepancy has been resolved.
- 16. The CLP calibration requirements were not followed for this analyte. The significance of this is discussed in the text (J/R).
- 17. The mid-range cyanide standard was not distilled. All results should be considered estimates (J).

18. The recovery of the initial or continuing calibration standard was outside of the required limit. The analyses should have been terminated and the instrument recalibrated. All data associated with this standard should be considered to be estimated values. See text.

CRDL STANDARD RECOVERIES

- 20. An **incorrect concentration** of CRDL standard was used for this analysis. Refer to the text for the significance of this on the data. Sample data was only qualified when the concentration was within the affected range.
- 21. The recovery of the CRDL standard was < 80%, but > 50% or between 121% and 150%. All low concentrations of analytes are considered estimated. Sample data was only qualified when the concentration was within the affected ranges. Non-detects were not qualified when the analyte was undetected and the CRDL recovery was between 121% and 150%.
- 22. The recovery of the CRDL standard was **less than 50%**. All values for low concentrations of this analyte are highly qualified. Associated data would be rejected according to the EPA HW-2 data validation guidelines if the sample concentration was within the affected ranges of the CRDL concentration (A.1.9.3.3).
- 23. The recovery of the CRDL standard was **greater than 150%** (this footnote is not used if the analyte was not detected). Associated data would be rejected according to the EPA HW-2 data validation guidelines if the sample concentration was within the affected range. (A.1.9.3.3).

SPIKE RECOVERIES

- 30. The **CLP required spike concentration was not added** to this sample. Refer to the text for discussion of the effect on the usability of the data.
- 31. The recovery of the aqueous predigestion spike was between 30% and 75%. The results were greater than the IDL. Significant matrix interference may be present. All samples associated with this quality assurance sample have been flagged with the "N" qualifier. The matrix interference associated with them may not be the same as that of the sample chosen for the matrix spike (J).
- 32. The recovery of the **aqueous** predigestion spike was less than 30%. Significant problems were found with matrix interference. All samples associated with this quality assurance sample have been flagged with the "N" qualifier. The data are unusable. The matrix interference associated with them may not be the same as that of the sample chosen for the matrix spike (R). Associated data would be **rejected** according to the EPA HW-2 data validation guidelines (A.1.9.7.4).
- 33. The recovery of the **aqueous** predigestion spike was **greater than 125% and less than 150%**, and the sample results were greater than the IDL. This indicates that matrix interference may be present. All samples associated with this quality assurance sample have been flagged with the "N" qualifier. The matrix interference associated with them may not be the same as that of the sample chosen for the matrix spike.
- 34. The recovery of the **aqueous** predigestion spike was **greater than 150%** and the sample results were greater than the IDL. This indicates that severe matrix interference may be present. All samples associated with this quality assurance sample have been

flagged with the "N" qualifier. The matrix interference associated with them may not be the same as that of the sample chosen for the matrix spike. Associated data would be rejected according to the EPA HW-2 data validation guidelines (A.1.9.7.4).

- 35. The recovery of the **soil** predigestion spike was **between 10% and 74%**. Significant matrix interference may be present. All samples associated with this quality assurance sample have been flagged with the "N" qualifier. The matrix interference associated with them may not be the same as that of the sample chosen for the matrix spike (J).
- 36. The recovery of the **soil** predigestion spike was **less than 10%**. Significant problems were found with matrix interference. All samples associated with this quality assurance sample have been flagged with the "N" qualifier. The data are unusable. The matrix interference associated with them may not be the same as that of the sample chosen for the matrix spike (R). Associated data would be **rejected** according to the EPA HW-2 data validation guidelines (A.1.9.7.5).
- 37. The recovery of the soil predigestion spike was between 126% and 200%, and the sample results were greater than the IDL. This indicates that matrix interference may be present. All samples associated with this quality assurance sample have been flagged with the "N" qualifier. The matrix interference associated with them may not be the same as that of the sample chosen for the matrix spike.
- 38. The recovery of the **soil** predigestion spike was **greater than 200%** and the sample results were greater than the IDL. This indicates that severe matrix interference may be present. All samples associated with this quality assurance sample have been flagged with the "N" qualifier. The matrix interference associated with them may not be the same as that of the sample chosen for the matrix spike. Associated data would be **rejected** according to the EPA HW-2 data validation guidelines (A.1.9.7.4).
- 39. The required post digestion spike was not analyzed for this element.
- 40. The recovery of the post digestion spike was less than 30%. Severe matrix interference is present.
- 41. Significant discrepancies exist between the recoveries of the predigestion and post digestion spikes. Refer to the text for a discussion of the impact of this on the data.
- 42. Spike or duplicate data was not included for this analyte.

DUPLICATE ANALYSES

- 43. The relative percent difference was greater than 50% for waters, or greater than 100% for soils (J).
- 44. The RPD data was incorrectly reported by the laboratory.
- 45. The RPD was greater than the 20% quality assurance limit, but less than 50% for water samples and less than 100% for soil samples.

LABORATORY CONTROL SAMPLE

46. The recovery of the LCS was less than 50%. The data would be rejected according to the EPA data validation guidelines (HW-2, A.1.19.3).

SERIAL DILUTION

- 47. A serial dilution was not analyzed for the samples of this delivery group. All concentrations greater than 10X the IDLs or greater than the CRDL when 10X the IDL is less than the CRDL.
- 48. The laboratory failed to flag this analyte with the "E" qualifier to denote that the serial dilution results did not meet the QC limit.
- 49. The percent difference of the serial dilution replicates was greater than 100% and the sample concentration was greater than 10X the CRDL. This data would be rejected according to EPA data validation guidelines (HW-2, A.1.20.4).
- 50. The field blank was used for the analysis of the serial dilution. All ICP data greater than 10X the IDL were flagged with the "J" qualifier.
- 51. The percent difference of the serial dilution for this analyte was greater than 10%, but less than 100%. The data for this analyte should be considered to be an estimated value.

SAMPLE ANALYSES

- 52. The value reported in the raw data has a significant negative drift which could affect the usability of low concentrations of this analyte. All data for low concentrations of this analyte should be considered to be estimated.
- 53. The analyte has been analyzed by a method which is not routinely used in this concentration range. Refer to the text for a discussion of any impact this may have on the usability of the data.
- 54. The results for this analyte have been qualified due to the nonconformance with the required holding time limitations.
- 55. The data for this analyte has been rejected. Refer to the text for discussion.
- 56. This sample was analyzed for dissolved metals. A dissolved matrix spike, serial dilution and duplicate were not performed. The quality assurance information for these analyses from the total metal data may not apply. Only those footnotes which concern the calibration quality assurance were noted for these samples.
- 57. The reported detection limit could not be confirmed from the initial calibration used for this analysis. The data was reported in the basis of the concentration of the lowest standard used in the initial calibration.
- 58. Raw data for this analysis was not found in the report. The data should be considered to be tentative until this is reviewed.
- 59. The laboratory flagged the data with a qualifier that did not apply to this sample matrix. The qualifier was removed in the data validation summary table. The data was flagged with the "J" qualifier to indicate that it was not possible to determine if any matrix interference would affect the end use of the data.

60. The raw data included in the report could not be followed. The results of this analysis should be considered tentative until the discrepancy has been resolved.

FURNACE ANALYSES

- 61. The duplicate injections are outside of the 20% RSD limits and the sample has not been rerun once was required (J).
- 62. The duplicate injections were reanalyzed and the RPD was still less than 20% (J).
- 63. The results of the analyte are greater than the IDL, but the recovery of the post digestion spike is less than 40%.
- **64**. The recovery of the post digestion spike is between 10% and 40%. The results of the sample are less than the IDL (UJ).
- 65. The recovery of the post digestion spike is less than 10% and the sample results are less than the IDL (R).
- 66. The sample absorbance is less than 50% of the post digestion spike absorbance, and greater than the IDL, and the post digestion spike is outside of the 85% 115% limits.
- 67. The sample absorbance is less than 50% of the post digestion spike absorbance, and less than the IDL, and the post digestion spike is outside of the 85% 115% limits.
- 68. The method of standard additions was required, but not performed (J).
- 69. The sample was analyzed by standard additions, but the required spiking concentrations were not used. (J).
- 70. The correlation coefficient of the method of standard addition was less than 0.990. The data for this sample would be technically rejected according to the EPA's data validation guidelines (HW-2, 1/92, A.1.22.2). The data should be examined in terms of the specific data quality objectives of the site. The results may be usable to estimate the degree of contamination at the site. The correlation coefficient is discussed in the text.
- 71. The analyses were not performed according to CLP methodology. Extensive problems were found and the data should not be used (See text).
- 72. The %RSD for the two ICP duplicates was greater than 50%. The results should be considered to be highly estimated.
- 73. The results of this analyte were qualified because the linear regression of the initial calibration was less than 0.995.
- 74. This sample was analyzed by furnace, but it was not analyzed in duplicate and a post digestion spike was not analyzed. The data for this analyte is rejected according to Section A.1.21.1 of the HW-2 EPA data validation protocols.

LINEAR RANGE

75. The data was reported from a concentration greater than the linear range.

PERCENT SOLIDS

80. <u>All</u> data for this sample is qualified due to the very high moisture content. The percent solids for this sample were between 10% and 50%.

ICP INTERFERENCE CHECK SAMPLE

81. The data for this analyte were rejected because its recovery in the ICP Interference Check Sample (solution AB) was less than 50%.

DATA USEABILITY REPORT

This useability report covers the analytical results, submitted by Accredited Laboratories, Inc. (Accredited), for the field sampling investigation, conducted by Lawler, Matusky & Skelly Engineers LLP (LMS) in September 1998 at the Laka site. The analytical report submitted by Accredited, sample designation group (SDG) 1781, 1933, and 1696 was validated by Nancy J. Potak's Data Validation. LMS reviewed the data validator's final report and assessed the analytical data against the project data quality objectives (DQOs) in preparation of this report. Where resulting quality control (QC) data did not fall within protocol requirements the reported data in the Focused Remedial Investigation Report (FRI) have been appropriately qualified. The data submitted by Accredited are useable to approximate levels of select environmental contaminants in samples collected as part of the Laka investigation.

A total of two (2) subsurface soil samples and three (3) groundwater probe samples were collected as part of the Laka investigation and analyzed for contract laboratory program (CLP) target compound list (TCL) volatile organic compounds. All of the analyses were conducted in accordance with the most recent version of the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP).

Those instances where the reported data were noncompliant are described in the data validator's report. This report presents a discussion of any impacts that noncompliant data and any other issues raised by the validator may have on the useability of the reported results.

Volatile Organic Compound Analysis

Soil Samples

The soil samples submitted to Accredited were analyzed for TCL VOCs in accordance with NYSDEC ASP CLP Method 95-1. A total of two (2) subsurface soil samples were collected from the same site location and identical depths during separate sampling events. The first sample was collected on 11 September 1998 and the second sample was collected on 30 September 1998.

Where reported concentrations may have been affected by QC failures the data useability is discussed below:

- 1. The sample collected on 11 September 1998 was received by the Laboratory on 14 September 1998. The laboratory log sheet indicated the temperature of the sample was 72°F (22°C) upon receipt. As a result, all data associated with sample B(16-20) collected on 11 September 1998 are considered estimated and values reported may be significantly underestimated (biased low).
- 2. Methylene chloride was detected in the method blanks associated with both soil sampling events at a level which was comparable to detections in field samples. The presence of methylene chloride in the samples, therefore, is not considered to be representative of site conditions and the validator rejected all detections of the compound. Methylene chloride was removed, therefore, as a detected compound in the final data summary table prepared by LMS.
- 3. Instrument detection limits (IDLs) were performed four months beyond the required six month limit which is outside of the NYSDEC ASP requirement of 6 months. Data useability is unaffected and no qualification is required.
- 4. A site specific matrix spike (MS) and matrix spike duplicate (MSD) was taken with the soil sample collected on 30 September 1998. The relative percent difference (RPD) calculation for trichloroethylene at 39% exceeded the acceptable quality control limit of 24%. All other recoveries and RPDs for this sample were within the acceptable quality control. Data useability is unaffected and no qualification is indicated.
- 5. The analytical report for the soil sample collected on 11 September 1998 was not issued according to standard NYSDEC ASP protocols. Data were validated according to standard NYSDEC ASP protocol. No additional data qualification is necessary and data useability is unaffected.

Groundwater Probe Samples

A total of three (3) groundwater probe samples were collected on 18 September 1998 and submitted to Accredited were analyzed for TCL VOCs in accordance with NYSDEC ASP CLP Method 95-1. Where reported concentrations may have been affected by QC failures the data useability is discussed below:

- 1. All samples collected were analyzed twelve (12) days outside of the NYSDEC ASP holding time. In addition, based on LMS' review of the data package, the laboratory log sheet indicated the temperature of the samples were 70°F (21°C) upon receipt. As a result, all groundwater probe sample results are considered estimated and values reported may be significantly underestimated (biased low).
- 2. Methylene chloride was detected in the associated method blank at a level which was comparable to detections in field samples. The presence of methylene chloride in the samples, therefore, is not considered to be representative of site conditions and the validator rejected all detections of the compound. Methylene chloride was removed, therefore, as a detected compound in the final data summary table prepared by LMS.
- 3. Acetone was detected in the holding blank at a concentration which was less than five times the concentrations detected in samples FLGP-W1(62-63 ft) and FLGP-W1 (72-73 ft). The presence of acetone in these samples, therefore, is not considered to be representative of site conditions and the validator rejected detections of the compound in the affected samples. Acetone was removed, therefore, as a detected compound in these samples in the final data summary table prepared by LMS. The acetone concentration in sample FLGP-W1 (92-93) was sufficiently high as not to have been affected by the blank contamination, therefore, no additional qualification for this sample is required.

SUMMARY OF THE ANALYTICAL DATA VALIDATION For The Former LAKA Site

New York State Department of Environmental Conservation Data Validation Summary Form

Group	Date	CLP	Sample	Lab	Matrix	VOA	BNA	TAL Metals	Cyanide	Page	Non-
#	Received	Year	Number	ID#	S/W	Compliance	Compliance	Compliance	Compliance	in CLP	Compliance
1696	9/14/98	95	B(16-20)	9810381	Soil	No	NA	NA	NA		ASP format, Carbon Disulfide %D 200%
1696	9/14/98	95	B(16-20)DL	9810381DL	Soil	No	NA	NA	NA		ASP format, Carbon Disulfide %D 200%

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

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Yor Hazardous Waste Section

SUMMARY OF THE ANALYTICAL DATA VALIDATION - CONGINEERS LLP For Former LAKA Site

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Soil Volatile Organic Analyses

Sample Received: September 14, 1998

Sample Delivery Group: 1696 **Laboratory Reference Number:**

> B(16-20) B(16-20)DL

9810381 9810381DL

One soil sample was received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * Data Completeness
- * GC/MS Tuning
- * Holding Times
 - Calibrations
 - Laboratory Blanks
 - Field Blanks
 - Trip Blanks
 - Holding Blank
- * System Monitoring Compound Recoveries
- * Internal Standard Recoveries
 - Matrix Spike / Matrix Spike Duplicate
- * Blank Spike
- * Compound Identification
- * Compound Quantitation
 - Method Detection Limit

DATA VALIDATION SUMMARY

The sample was collected on 9/11, but was not received by the laboratory until 9/14. The laboratory's case narrative notes that the temperature upon receipt was 72 degrees F. The volatile organic data for this sample may have been significantly underestimated. All of the data were flagged with the "J" qualifier and the "See Text" notation.

The analytical report was not issued in a NYS DEC ASP format. None of the standard ASP forms were used and compounds in addition to those of the standard target compound list were present on the laboratory's summary forms.

The data were validated according to standard NYS DEC ASP protocols.

^{* -} Indicates that all criteria were met for this parameter.

The soil sample was reanalyzed at a 20X dilution due to a very high concentration of trichloroethene (3,500 ug/kg). When the sample was reanalyzed it was mislabeled in Form V as 9810281DL instead of 9810381.

It appears that 0.25 grams of sample was analyzed in the dilution. The standard NYS DEC midlevel extraction did not appear to have been used.

The percent difference of carbon disulfide in both continuing calibrations were 210%. Carbon disulfide was not detected in this sample, but the data for this compound was technically rejected due to the very poor continuing calibration criteria.

Trip and field blanks were not included with this sample.

Non-target compounds were not analyzed with these samples.

The instrument detection limit analyses were performed 4 months beyond the required six month limit.

No other problems were found with the analyses of these samples which would affect the end use of the data.

Nancy J. Potak October 24, 1988

Holding Times

All samples were analyzed within the 10 day NYS DEC ASP required holding time.

Tunes

No problems were found with any of the tunes of this sample delivery group.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were detected with one the initial calibration of this sample delivery group.

The percent difference of carbon disulfide in both continuing calibrations were 210%. Carbon disulfide was not detected in this sample, but the data for this compound was technically rejected due to the very poor continuing calibration criteria.

The percent difference of xylene (33% & 30%) was also above the 25% quality assurance limit in both continuing calibrations. Xylene was not detected in any of the samples of this delivery group. The data for xylene were flagged with the "J" qualifier and footnoted with #15 in the data validation summary table.

No other problems were detected with any of the initial or continuing calibrations.

Matrix Spike / Matrix Spike Duplicate

Sample 9810360 of another sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the acceptable quality control limits. It is not known if the matrix of this sample is similar to sample B(16-20). Data for this matrix spike and matrix spike duplicate were not reviewed during this validation.

Blank Spike

No problems were found with the recoveries of the blank spike.

Method Blanks

Low concentrations of methylene chloride (2J ug/kg) were detected on both method blanks. Methylene chloride was negated from both samples according to standard EPA data validation procedures.

Trip Blanks

A trip blank was not included with this sample delivery group.

Holding Blank

A holding blank was not analyzed with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

The instrument detection limit analyses were performed 4 months beyond the required six month limit.

No other problems were detected with the laboratory's reported instrument detection limits.

Sample Results

The sample was collected on 9/11, but was not received by the laboratory until 9/14. The laboratory's case narrative notes that the temperature upon receipt was 72 degrees F. The volatile organic data for this sample may have been significantly underestimated. All of the data were flagged with the "J" qualifier and the "See Text" notation.

It appears that 0.25 grams of sample was analyzed in the dilution. The standard NYS DEC midlevel extraction did not appear to have been used.

Non-target compounds were not analyzed with these samples.

No other problems were found with the reported results of any of the samples of this delivery group.

Data Validation Summary Table For Former LAKA Site

Soil TCL Volatile Organic Analyses - Method 95-1

Sample Received: September 14, 1998

Non-Target Volatile Organics

Not Reported

Sample Delivery Group: 1696

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision		Qualifiers	Footnotes
					····	
Sample B(16-20) (Lab. #: 9810381)		% Moisture = 16.3				
TCL Volatile Organics	(Undiluted)	,,, 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Chloromethane	10 U	6 U	12 U	J	qualify	See Text
Bromomethane	10 U	6 U	12 U	J	qualify	See Text
Vinyl Chloride	10 U	6 U	12 U	J	qualify	See Text
Chloroethane	10 U	6 U	12 U	J	qualify	See Text
Methylene Chloride	2 J	16 B	16 B	j	negate	See Text, 1
Acetone	10 U	22	22	J	qualify	See Text
Carbon Disulfide	10 U	6 U	12 U		reject	See Text, 22
1,1-Dichlorgethene	10 U	6 U	12 U	J	qualify	See Text
1,1-Dichloroethane	10 U	6 U	12 U	J	qualify	See Text
1,2-Dichloroethene (total)	10 U	100	101	J	qualify	See Text
Chloroform	10 U	6 U	12 U	J	qualify	See Text
1,2-Dichloroethane	10 U	6 U	12 U	J	qualify	See Text
2-Butanone	10 U	6 U	12 U	J	qualify	See Text
1,1,1-Trichloroethane	10 U	6 U	12 U	j	qualify	See Text
Carbon Tetrachloride	10 U	6 U	12 U	J	qualify	See Text
Bromodichloromethane	10 U	6 U	12 U	J	qualify	See Text
1,2-Dichloropropane	10 U	6 U	12 U	J	qualify	See Text
cis-1,3-Dichloropropene	10 U	6 U	12 U	J	qualify	See Text
Trichloroethene	10 U	470 E	472 E	J	qualify	See Text, 72
Dibromochloromethane	10 U	6 U	12 U	J	qualify	See Text
1,1,2-Trichloroethane	10 U	6 U	12 U	J	qualify	See Text
Benzene	10 U	6 U	12 U	J	qualify	See Text
trans-1,3-Dichloropropene	10 U	6 U	12 U	J	qualify	See Text
Bromoform	10 U	6 U	12 U	J	qualify	See Text
4-Methyl-2-Pentanone	10 U	6 U	12 U	J	qualify	See Text
2-Hexanone	10 U	6 U	12 U	J	qualify	See Text
Tetrachloroethene	10 U	2 5	25	J	qualify	See Text
1,1,2,2-Tetrachloroethane	10 U	6 U	12 U	J	qualify	See Text
Toluene	10 U	3 J	3 J	J	qualify	See Text
Chlorobenzene	10 U	6 U	12 U	J	qualify	See Text
Ethylbenzene	10 U	1 J	1 J	j	qualify	See Text
Styrene	10 U	6 U	12 U	J	qualify	See Text
Xylene (total)	10 U	6 U	12 U	J	qualify '	See Text, 15

Data Validation Summary Table For Former LAKA Site

Soil TCL Volatile Organic Analyses - Method 95-1

Sample Received: September 14, 1998

Non-Target Volatile Organics

Not Reported

Sample Delivery Group: 1696

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision		Qualifiers	Footnotes
mple B(16-20) (Lab. #: 9810381)						
•	•	% Moisture = 16.3				
TCL Volatile Organics	(Diluted 20X)					
Chloromethane	10 U	120 U	239 U	J	qualify	See Text, 72
Bromomethane	10 U	120 U	239 U	J	qualify	See Text, 72
Vinyl Chloride	10 U	120 U	23 9 U	J	qualify	See Text, 72
Chloroethane	10 U	120 U	239 U	J	qualify	See Text, 72
Methylene Chloride	2 J	78 JBD	7 8 JBD		negate	See Text, 1, 7
Acetone	10 U	190 D	194 D	J	qualify	See Text, 72
Carbon Disulfide	10 U	120 U	239 U	J	reject	See Text, 22,
1,1-Dichloroethene	10 U	120 U	239 U	J	qualify	See Text, 72
1,1-Dichloroethane	10 U	120 U	239 U		qualify	See Text, 72
1,2-Dichloroethene (total)	10 U	71 JD	70 JD	J	qualify	See Text, 72
Chloroform	10 U	120 U	239 U	J	qualify	See Text, 72
1,2-Dichloroethane	10 U	120 U	239 U	J	qualify	See Text, 72
2-Butanone	10 U	120 U	239 U	J	qualify	See Text, 72
1,1,1-Trichloroethane	10 U	120 U	239 U	J	qualify	See Text, 72
Carbon Tetrachloride	10 U	120 U	239 U	J	qualify	See Text, 72
Bromodichloromethane	10 U	120 U	239 U	J	qualify	See Text, 72
1,2-Dichloropropane	10 U	120 U	239 U	J	qualify	See Text, 72
cis-1,3-Dichloropropene	10 U	120 U	239 U	J	qualify	See Text, 72
Trichloroethene	10 U	3,500 D	3,456 D	J	qualify	See Text
Dibromochloromethane	10 U	120 U	239 U	J	qualify	See Text, 72
1,1,2-Trichloroethane	10 U	120 U	239 U	J	qualify	See Text, 72
Benzene	10 U	120 U	239 U	J	qualify	See Text, 72
trans-1,3-Dichloropropene	10 U	120 U	239 U	J	qualify	See Text, 72
Bromoform	10 U	120 U	239 U	J	qualify	See Text, 72
4-Methyl-2-Pentanone	10 U	120 U	239 U	J	qualify	See Text, 72
2-Hexanone	10 U	120 U	239 U	J	qualify	See Text, 72
Tetrachloroethene	10 U	120 D	115 D	J	qualify	See Text, 72
1,1,2,2-Tetrachloroethane	10 U	120 U	239 U	J	qualify	See Text, 72
Toluene	10 U	120 U	239 U	J	qualify	See Text, 72
Chlorobenzene	10 U	120 U	239 U	J	qualify	See Text, 72
Ethylbenzene	10 U	120 U	239 U	J	qualify	See Text, 72
Styrene	10 U	120 U	239 U	J	qualify	See Text, 72
Xylene (total)	10 U	120 U	239 U	J	qualify .	See Text, 15, 7

Page 2

DATA VALIDATION WORKSHEETS For Former LAKA Site

Soil Volatile Organic Analyses - Method 95-1 Sample Received: September 14, 1998

Sample Delivery Group: 1696 Laboratory Reference Number:

> B(16-20) B(16-20)DL

9810381 9810381DL

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: HP5970BC

Level: Low

Tune File ID: C9595

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: C9596

Date: 08/06/98

Page: V-46

Associated Samples: VBLKC66, 9810381, VBLKC67, 9810381DL

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300

Surrogates:

Toluene-d8 <30.0 >0.01
Bromofluorobenzene * <20.5 >0.20
1,2-Dichloroethane-d4 <30.0 >0.01

All Compounds Average RRF >QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %RSD < QC Limit: yes

All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	1,1-Dichloroethene	Trichloroethene				
PPB						
10	34240/128938 * 5.000 = 1.328	44384/496233 * 5.000 = 0.447				
20	67061/129780 * 2.500 = 1.292	84771/504931 * 2.500 = 0.420				
50	182806/146539 * 1.000 = 1.247	236754/568897 * 1.000 = 0.416				
100	365048/135377 * 0.500 = 1.348	463400/517245 * 0.500 = 0.448				
200	694167/132364 * 0.250 = 1.311	863794/518180 * 0.250 = 0.417				

AV. RRF = 1.30529

%RSD = 2.944%

AV. RRF = 0.445095 %RSD = 7.216%

SUMMARY OF THE ANALYTICAL DATA VALIDATION For The Former LAKA Site

New York State Department of Environmental Conservation Data Validation Summary Form

Group #	Date Received	CLP Year	Sample Number	Lab ID #	Matrix S/W	VOA Compliance	BNA Compliance	TAL Metals Compliance	Cyanide Compliance	Page in CLP	Non- Compliance
1933	10/1/98	95	16-20	9811260	Soil	See Text	NA	NA	NA		IDL older than 6 months
1933	10/1/98	95	16-20MS	9811260MS	Soil	See Text	NA	NA	NA		IDL older than 6 months
1933	10/1/98	95	16-20MSD	9811260MSD	Soil	See Text	NA	NA	NA		IDL older than 6 months

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NOV 0 2 1998

For Hazardous Waste Section

SUMMARY OF THE ANALYTICAL DATA VALIDATION For Former LAKA Site

Soil Volatile Organic Analyses - Method 95-1 Sample Received: October 1, 1998 Sample Delivery Group: 1933 Laboratory Reference Number:

> 16-20 9811260 16-20MS 9811260MS 16-20MSD 9811260MSD

One soil sample was received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * Data Completeness
- * GC/MS Tuning
 - Holding Times
 - Calibrations
 - Laboratory Blanks
 - Field Blanks
- * Holding Blank
 - Trip Blanks
- * System Monitoring Compound Recoveries
- * Internal Standard Recoveries
- * Matrix Spike / Matrix Spike Duplicate
- * Blank Spike
- * Compound Identification
- * Compound Quantitation
 - Method Detection Limit
- * Indicates that all criteria were met for this parameter.

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

NOV 0 2 1998

For Hazardous Waste Section

DATA VALIDATION SUMMARY

The instrument detection limit analyses were performed 4 months beyond the required six month limit.

Trip and field blanks were not included with this sample.

The high RPD of trichloroethene (33%) in the matrix spike should be noted.

No other problems were found with the analyses of these samples which would affect the end use of the data.

Nancy J. Potak October 29, 1988

Holding Times

All samples were analyzed within the 10 day NYS DEC ASP holding time.

Tunes

The FORM Vs were not found in the correct order in the report (page 62)

The EPA tune criteria were reported on FORM V instead of those of the NYS DEC ASP program. The data were reviewed in terms of the NYS DEC ASP criteria.

No problems were found with any of the tunes of this sample delivery group.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

The percent RSD of vinyl chloride (24%) was above the 20.5% quality assurance limit. The data for this compound was flagged with the "J" qualifier and footnoted with #15 in the data validation summary table. This compound was not detected in the sample.

Section D 9.3.5.4 of the NYS DEC ASP Manual states that up to 2 compounds may fail the criteria and still meet the minimum response factor and %RSD requirements. These compounds must have a minimum RRF greater or equal to 0.010 and the %RSD must be less than or equal to 40%. This requirement was satisfied in all of the calibrations of this sample delivery group.

Matrix Spike / Matrix Spike Duplicate

Sample 16-20 (Lab. #: 9811260) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the acceptable quality control limits with the one exception of the RPD of trichloroethene (39%). This was above the 24% quality assurance limit for this analyte.

Blank Spike

No problems were found with the recoveries of the blank spike.

Method Blanks

A low concentration of methylene chloride (2J ug/l) and a non-target compound were detected in the method blank. Methylene chloride was negated according to standard EPA data validation protocols. The non-target compound was not detected in the sample.

Holding Blank

No compounds were detected in the holding blank associated with the analyses of these samples.

Data for an additional holding blank was also included in the analytical report. The data for this blank was not reviewed during the validation.

Trip Blanks

A trip blank was not included with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

The instrument detection limit analyses were performed 4 months beyond the required six month limit.

No other problems were detected with the laboratory's reported instrument detection limits.

Sample Results

Many of the non-target unknown hydrocarbons in the sample were flagged with the "N" qualifier by the laboratory. The "J" qualifier should have been used. This was amended in the data validation summary table.

No other problems were found with the reported results of the sample of this delivery group.

Soil TCL Volatile Organic Analyses - Method 95-1

Sample Received: October 1, 1998 Sample Delivery Group: 1933

One de Consta	Method Blank Conc.	Lab. Reported Conc.	Validation Reported Conc.	Qualifiers	Footnote
Sample / Analyte	(PPB)	(PPB)	` Decision		
Sample 16-20 (Lab. #: 9811260)					
TCL Volatile Organics	(Undiluted)	% Moisture = 9			
Chloromethane	220 U	220 U	220 U		
Bromomethane	220 U	220 U	220 U		
Vinyl Chloride	220 U	220 U		J qualif y	15
•	220 U	220 U	220 U	J qualify	15
Chloroethane Methylene Chloride	6 J	9 3 JB	93 JB	n===ta	1
•	220 U	380	384	negate	,
Acetone	220 U	220 U	220 U		
Carbon Disulfide	220 U	220 U	220 U		
1,1-Dichloroethene					
1,1-Dichloroethane	220 U	220 U	220 U		
1,2-Dichloroethene (total)	220 U	30 J	30 J		
Chloroform	220 U	220 U	220 U		
1,2-Dichloroethane	220 U	220 U	220 U		
2-Butanone	220 U	340 220 U	339		
1,1,1-Trichloroethane	220 U		220 U		
Carbon Tetrachloride	220 U	220 U	220 U		
Bromodichloromethane	220 U	220 U	220 U		
1,2-Dichloropropane	220 U	220 U	220 U		
cis-1,3-Dichloropropene	220 U	220 U	220 U		
Trichloroethene	220 U	1,700	1,743		
Dibromochloromethane	220 U	220 U	220 U		
1,1,2-Trichloroethane	220 U	220 U	220 U		
Benzene	220 U	220 U	220 U		
trans-1,3-Dichloropropene	220 U	220 U	220 U		
Bromoform	220 U	220 U	220 U 220 U		
4-Methyl-2-Pentanone	220 U	220 U 220 U	220 U		
2-Hexanone	220 U	220 U 81 J	81 J		
Tetrachloroethene	220 U 220 U	220 U	220 U		
1,1,2,2-Tetrachioroethane		30 J	31 J		
Toluene	220 U	220 U	220 U		
Chlorobenzene	220 U 220 U	220 U	220 U		
Ethylbenzene	220 U	220 U	220 U		
Styrene Xylene (total)	220 U	220 U	220 U		
Valence (fotal)	2200	220 0	2200		
Non-Target Volatile Organics					
Unknown Hydrocarbon (23.79)	ND	180 N	176 J		
Nonane (8Cl9Cl) (25.11)	ND	620 N	615 N		
Unknown Hydrocarbon (26.21)	ND	370 N	374 J		
Unknown Hydrocarbon (27.08)	ND	1,400 N	1,429 J		
Octane, 3,6-dimethyl- (8CI9C (27.49)	ND	350 N 400 N	352 N 396 J		
Unknown Hydrocarbon (28.58)	ND	400 N 260 N	396 J 264 J		
Unknown Hydrocarbon (28.95)	ND	280 N 180 N	176 J		
Unknown Hydrocarbon (29.63)	ND	770 N	769 N		
Benzene, 1-ethyl-3-methyl- (30.09)	ND	770 N 770 N	769 N 769 J		
Unknown Hydrocarbon (30.32)	ND ND	240 N	769 J 242 J		
Unknown Aromatic (30.50)	ND ND	310 N	308 N		
D-Limonene (30.64)	ND	480 N	484 N		
Undecane (8CI9CI)	ND	460 N	462 N		
Benzene, 1-methyl-3-propyl- (31.64)	IND	400 14	40∠ IV		

Soil TCL Volatile Organic Analyses - Method 95-1

Sample Received: October 1, 1998 Sample Delivery Group: 1933

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	QA Validation Reported Conc. Decision	Qualifiers	Footnotes
ample 16-20 (Lab. #: 9811260)	•	% Moisture = 9,			
TCL Volatile Organics	(Undiluted)	, o molatara — o ,			
Chloromethane	220 U	220 U	220 U		
Bromomethane	220 U	220 U	220 U		
Vinyl Chloride	220 U	220 U	220 U	J qualify	15
Chloroethane	220 U	220 U	220 U	- quanty	, 0
Methylene Chloride	6 J	93 JB	93 JB	negate	1
Acetone	220 U	380	384		•
Carbon Disulfide	220 U	220 U	220 U		
1,1-Dichloroethene	220 U	220 U	220 U		
1,1-Dichloroethane	220 U	220 U	220 U		
1,2-Dichloroethene (total)	220 U	30 J	30 J		
Chloroform	220 U	220 U	220 U		
1,2-Dichloroethane	220 U	220 U	220 U		
2-Butanone	220 U	340	339		
1,1,1-Trichloroethane	220 U	220 U	220 U		
Carbon Tetrachloride	220 U	220 U	220 U		
Bromodichloromethane	220 U	220 U	220 U		
1,2-Dichloropropane	220 U	220 U	220 U		
cis-1,3-Dichloropropene	220 U	220 U	220 U		
Trichloroethene	220 U	1,700	1,743		
Dibromochloromethane	220 U	220 U	220 U		
	220 U	220 U	220 U		
1,1,2-Trichloroethane Benzene	220 U	220 U	220 U		
	220 U	220 U	220 U		
trans-1,3-Dichloropropene	220 U	220 U	220 U		
Bromoform	220 U	220 U	220 U		
4-Methyl-2-Pentanone	220 U	220 U			
2-Hexanone	220 U	81 J	220 U		
Tetrachloroethene	220 U	220 U	81 J 220 U		
1,1,2,2-Tetrachloroethane Toluene	220 U	30 J	31 J		
	220 U	220 U			
Chlorobenzene	220 U	220 U	220 U 220 U		
Ethylbenzene	220 U	220 U	220 U		
Styrene Yulana (tatal)	220 U	220 U	220 U		
Xylene (total)	220 0	220 0	220 0		
Non-Target Volatile Organics					
Unknown Hydrocarbon (23.79)	ND	180 N	176 J		
Nonane (8CI9CI) (25.11)	ND	620 N	615 N		
Unknown Hydrocarbon (26.21)	ND	370 N	374 J		
Unknown Hydrocarbon (27.08)	ND	1,400 N	1,429 J		
Octane, 3,6-dimethyl- (8CI9C (27.49)	ND	350 N	352 N		
Unknown Hydrocarbon (28.58)	ND	400 N	396 J		
Unknown Hydrocarbon (28.95)	ND	260 N	264 J		
Unknown Hydrocarbon (29.63)	ND	180 N	176 J		
Benzene, 1-ethyl-3-methyl- (30.09)	ND	770 N	769 N		
Unknown Hydrocarbon (30.32)	МD	770 N	769 J		
Unknown Aromatic (30.50)	ND	240 N	242 J		
D-Limonene (30.64)	ND	310 N	308 N		
Undecane (8CI9CI)	ND	480 N	484 N		
Benzene, 1-methyl-3-propyl- (31.64)	ND	460 N	462 N		
Benzene, 2-ethyl-1,4-dimethy (31.87)	ND	750 N	747 N		

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: HP5970BC

Level: Low

Tune File ID: C0699

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: C0700

Date: 10/07/98

Page: V-48

Associated Samples: VBLKC79, MSB, VBLKC81, HBLK01, 16-20, 16-20MS, 16-20MSD

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	24%	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300

Surrogates:

>0.01 Toluene-d8 <30.0 >0.20 Bromofluorobenzene * <20.5 1,2-Dichloroethane-d4 >0.01 <30.0

All Compounds Average RRF >QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %RSD < QC Limit: yes All Compounds %RSD < 100%: yes

Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:	1,1-Dichloroethene	Trichloroethene
PPB		

10	26668/83094* 5.000 = 1.6047	45879/430934 * 5.000 = 0.5323
20	57295/93183 * 2.500 = 1.5372	93174/493841 * 2.500 = 0.4717
50	133869/93560 * 1.000 = 1.4308	21979/472540 * 1.000 = 0.4651
100	259444/88535 * 0.500 = 1.4652	424116/455328 * 0.500 = 0.4657
200	561850/92690 * 0.250 = 1.5154	904377/464261 * 0.250 = 0.4870

AV. RRF = 1.5107

%RSD = 4.44%

AV. RRF = 0.4844

%RSD = 5.83%

SUMMARY OF THE ANALYTICAL DATA VALIDATION For The Former LAKA Site

New York State Department of Environmental Conservation Data Validation Summary Form

Group	Date	CLP	Sample	Lab	Matrix	VOA	BNA	TAL Metals	Cyanide	Page	Non-
#	Received	Year	Number	ID#	S/W	Compliance	Compliance	Compliance	Compliance	in CLP	Compliance
1781	9/21/98	95	W1 92-93	9810777	Water	No	NA	NA	NA	I-31	Analyzed 12 days beyond holding time.
1781	9/21/98	95	W1 92-93DL	9810777DL	Water	No	NA	NA	NA	1-31	Analyzed 12 days beyond holding time.
1781	9/21/98	95	W1 72-73	9810778	Water	No	NA	NA	NA	1-31	Analyzed 12 days beyond holding time.
1781	9/21/98	95	W1 72-73MS	9810778MS	Water	No	NA	NA	NA	1-31	Analyzed 12 days beyond holding time.
1781	9/21/98	95	W1 72-73MSD	9810778MSD	Water	No	NA	NA	NA	1-31	Analyzed 12 days beyond holding time.
1781	9/21/98	95	W1 62-63	8710779	Water	No	NA	NA	NA	1-31	Analyzed 12 days beyond holding time.

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

NOV 0 2 1998

For Hazardous Waste Section

SUMMARY OF THE ANALYTICAL DATA VALIDATION For Former LAKA Site

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

Water Volatile Organic Analyses - Method 95-1 Samples Received: September 21, 1998

NOV 0 2 1998

Sample Delivery Group: 1781 Laboratory Reference Number:

For Hazardous Waste Section

W1 92-93	9810777
W1 92-93DL	9810777DL
W1 72-73	9810778
W1 72-73MS	9810778MS
W1 72-73MSD	9810778MSD
W1 62-63	8710779

Water samples were received for analyses of the volatile organic TCL analyte list by NYS DEC ASP protocols. A complete analytical validation was performed based upon the following parameters:

- * Data Completeness
- * GC/MS Tuning
 - Holding Times
- * Calibrations
 - Laboratory Blanks
 - Field Blanks
 - Holding Blank
 - Trip Blanks
- * System Monitoring Compound Recoveries
- * Internal Standard Recoveries
- * Matrix Spike / Matrix Spike Duplicate
- * Blank Spike
- * Compound Identification
- * Compound Quantitation
 - Method Detection Limit

^{* -} Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

The samples of this delivery group were analyzed 12 days beyond the 10 day NYS DEC ASP holding time. The data reported for these samples may be significantly underestimated and low concentrations of some volatile compounds may have been overlooked. The laboratory did not note this problem in their case narrative.

Sample W1 92-93 was reanalyzed at a 5x dilution due to a high concentration of acetone (210 ug/l)

Trip and field blanks were not included with this sample.

The instrument detection limit analyses were performed 4 months beyond the required six month limit.

No other problems were found with the analyses of these samples which would affect the end use of the data.

Nancy J. Potak October 29, 1988

Holding Times

The samples of this delivery group were analyzed 12 days beyond the 10 day NYS DEC ASP holding time. The data reported for these samples may be significantly underestimated and low concentrations of some volatile compounds may have been overlooked.

Tunes

The FORM Vs were not found in the correct order in the report (page 115)

The EPA tune criteria were reported on FORM V instead of those of the NYS DEC ASP program. The data were reviewed in terms of the NYS DEC ASP criteria.

No problems were found with any of the tunes of this sample delivery group.

System Monitoring Compound Recoveries

All system monitoring compound recoveries were within the NYS DEC's ASP quality assurance limits.

Calibrations

No problems were detected with any of the initial or continuing calibrations.

Matrix Spike / Matrix Spike Duplicate

Sample W1 72-73 (Lab. #: 810778) of this sample delivery group was used for the matrix spike and matrix spike duplicate. All recoveries and RPDs were within the acceptable quality control limits.

Blank Spike

No problems were found with the recoveries of the blank spike.

Method Blanks

A low concentration of methylene chloride (2J ug/l) and a non-target compound were detected in the method blank associated with the initial analyses of these samples. Both of these compounds were negated according to standard EPA data validation protocols when ever they were detected in a sample.

The non-target compound was also detected in samples W1 72-73 and W1 62-63, but was not flagged with the "B" qualifier by the laboratory. This was added in the data validation summary table.

Methylene chloride (15 ug/l) and acetone (5J ug/l) were both found in the method blank associated with the diluted analysis of sample W1 92-93. The methylene chloride in the diluted sample was negated, but the acetone was only qualified due to its high concentration in the sample (42 ug/l prior to correction for dilution). The concentration of acetone in the method blank did not affect the end use of the data for this compound in the sample.

Holding Blank

Acetone was detected in the holding blank at a concentration of 13 ug/l. This was footnoted with #2 and negated in all samples with the one exception of sample W1 92-93. The acetone concentration in this sample was too high to be affected by the acetone concentration in the holding blank.

Trip Blanks

A trip blank was not included with this sample delivery group.

Field Blank

A field blank was not associated with this sample delivery group.

Internal Standard Areas and Retention Times

The instrument detection limit analyses were performed 4 months beyond the required six month limit.

No other problems were found with the recoveries or retention times in any of the internal standards associated with the samples of this delivery group.

Instrument Detection Limits

No problems were detected with the laboratory's reported instrument detection limits.

Sample Results

Sample W1 92-93 was reanalyzed at a 5x dilution due to a high concentration of acetone (210 ug/l)

The non-target unknown hydrocarbon in sample W1 72-73 was flagged with the "N" qualifier by the laboratory. The "J" qualifier should have been used. This was added in the data validation summary table. This compound was also detected in the method blank and negated according to standard EPA data validation protocols.

No other problems were found with the reported results of any of the samples of this delivery group.

Data Validation Summary Table For Former LAKA Site

Water TCL Volatile Organic Analyses - Method 95-1

Samples Received: September 21, 1998

Sample Delivery Group: 1781

None Detected

	Method Blank Conc.	Lab. Reported Conc.	QA Validation Reported Conc.	•	Qualifiers	Footnote
Sample / Analyte	(PPB)	(PPB)	Decision			
Sample W1 92-93 (Lab. #: 9810777)						
TCL Volatile Organics	(Undiluted)					
Chloromethane	10 U	10 U	10 U	J	qualify	81
Bromomethane	10 U	10 U	10 U	J	qualify	81
Vinyl Chloride	10 U	10 U	10 U	J	qualify	81
Chloroethane	10 U	10 U	10 U	J	qualify	81
Methylene Chloride	2 J	4 JB	4 JB		qualify	81
Acetone	10 U	250 E	255 E	J	qualify	6, 72, 8
Carbon Disulfide	10 U	10 U	10 U	J	qualify	81
1,1-Dichloroethene	10 U	2 J	2 J		qualify	81
1,1-Dichloroethane	10 U	7 J	7 J		qualify	81
1,2-Dichloroethene (total)	10 U	17	17	J	qualify	81
Chloroform	10 U	10 U	10 U	J	qualify	81
1,2-Dichloroethane	10 U	10 U	10 U	J	qualify	81
2-Butanone	10 U	10 U	10 U	j	qualify	81
1,1,1-Trichloroethane	10 U	7 J	7 J		qualify	81
Carbon Tetrachloride	10 U	10 U	10 U	J	qualify	81
Bromodichloromethane	10 U	10 U	10 U	J	qualify	81
1,2-Dichloropropane	10 U	10 U	10 U	j	qualify	81
cis-1,3-Dichloropropene	10 U	10 U	10 U	J	qualify	81
Trichloroethene	10 U	8 J	7 J		qualify	81
Dibromochloromethane	10 U	10 U	10 U	J	qualify	81
1,1,2-Trichloroethane	10 U	10 U	10 U	J	qualify	81
Benzene	10 U	2 J	2 J		qualify	81
trans-1,3-Dichloropropene	10 U	10 U	10 U	J	qualify	81
Bromoform	10 U	10 U	10 U	j	qualify	81
4-Methyl-2-Pentanone	10 U	10 U	10 U	J	qualify	81
2-Hexanone	10 U	10 U	10 U	J	qualify	81
Tetrachloroethene	10 U	7 J	7 J		qualify	81
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	J	qualify	81
Toluene	10 U	2 J	2 J		qualify	81
Chlorobenzene	10 U	10 U	10 U	J	qualify	81
Ethylbenzene	10 U	10 U	10 U	J	qualify	81
Styrene	10 U	10 U	10 U	J	qualify	81
Xylene (total)	10 U	10 U	10 U	J	qualify	81
Non-Target Volatile Organics						
Non-Target Volatile Organics						

Water TCL Volatile Organic Analyses - Method 95-1

Samples Received: September 21, 1998

Sample Delivery Group: 1781

Not Reported

Sample / Analyte Ition of Sample W1 92-93 (Lab. #: 98 TCL Volatile Organics Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disulfide 1,1-Dichloroethene	Method Blank Conc. (PPB) 10777) (Diluted 5X) 10 U 10 U 10 U 10 U 15 5 J 10 U 10 U	Lab. Reported Conc. (PPB) 50 U 50 U 50 U 50 U 51 U 52 U 53 DB 210 DB	Validation Reported Conc. Decision 50 U 50 U 50 U 50 U 50 U 53 DB	J J	Qualifiers qualify qualify qualify	72, 81 72, 81
ution of Sample W1 92-93 (Lab. #: 98 TCL Volatile Organics Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disulfide	Conc. (PPB) 10777) (Diluted 5X) 10 U 10 U 10 U 10 U 15 5 J 10 U	50 U 50 U 50 U 50 U 50 U 50 U 50 U	Conc. Decision 50 U 50 U 50 U 50 U 50 U) J	qualify qualify	72, 81 72, 81
TCL Volatile Organics Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disulfide	(PPB) (Diluted 5X) 10 U 10 U 10 U 10 U 15 U 10 U	50 U 50 U 50 U 50 U 50 U 50 U 53 DB	50 U 50 U 50 U 50 U 50 U) J	qualify qualify	72, 81 72, 81
TCL Volatile Organics Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disulfide	10777) (Diluted 5X) 10 U 10 U 10 U 10 U 15 5 J	50 U 50 U 50 U 50 U 53 DB	50 U 50 U 50 U 50 U) J	qualify	72, 81
TCL Volatile Organics Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disulfide	(Diluted 5X) 10 U 10 U 10 U 10 U 15 5 J	50 U 50 U 50 U 53 DB	50 U 50 U 50 U) J	qualify	72, 81
Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disulfide	10 U 10 U 10 U 10 U 15 5 J 10 U	50 U 50 U 50 U 53 DB	50 U 50 U 50 U) J	qualify	72, 81
Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disulfide	10 U 10 U 10 U 15 5 J 10 U	50 U 50 U 50 U 53 DB	50 U 50 U 50 U) J	qualify	72, 81
Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disulfide	10 U 10 U 15 5 J 10 U	50 U 50 U 53 DB	50 U 50 U	J		
Chloroethane Methylene Chloride Acetone Carbon Disulfide	10 U 15 5 J 10 U	50 U 53 DB	50 U		qualify	70.01
Methylene Chloride Acetone Carbon Disulfide	15 5 J 10 U	53 DB		J		72, 81
Acetone Carbon Disulfide	5 J 10 U		E3 DB		qualify	72, 81
Carbon Disulfide	10 U	210 DB	73 00	J	negate	1, 6, 72, 81
			209 DB	J	qualify	3, 81
1.1-Dichloroethene	10.11	50 U	50 U	J	qualify	72, 81
	100	50 U	50 U	J	qualify	72, 81
1,1-Dichloroethane	10 U	6 JD	6 JD		qualify	72, 81
1,2-Dichloroethene (total)	10 U	15 JD	15 JD		qualify	72, 81
Chloroform	10 U	50 U	50 U	J	qualify	72, 81
1,2-Dichloroethane	10 U	50 U	50 U	J	qualify	72, 81
2-Butanone	10 U	50 U	50 U	J	qualify	72, 81
1,1,1-Trichloroethane	10 U	5 JD	5 JD		qualify	72, 81
Carbon Tetrachloride	10 U	50 U	50 U	J	qualify	72, 81
Bromodichloromethane	10 U	50 U	50 U	J	qualify	72, 81
1,2-Dichloropropane	10 U	50 U	50 U	J	qualify	72, 81
cis-1,3-Dichloropropene	10 U	50 U	50 U	J	qualify	72, 81
Trichloroethene	10 U	50 U	50 U	J	qualify	72, 81
Dibromochloromethane	10 U	50 U	50 U	J	qualify	72, 81
1,1,2-Trichloroethane	10 U	50 U	50 U	J	qualify	72, 81
Benzene	10 U	50 U	50 U	J	qualify	72, 81
trans-1,3-Dichloropropene	10 U	50 U	50 U	J	qualify	72, 81
Bromoform	10 U	50 U	50 U	J	qualify	72, 81
4-Methyl-2-Pentanone	10 U	50 U	50 U	J	qualify	72, 81
2-Hexanone	10 U	50 U	50 U	J	qualify	72, 81
Tetrachloroethene	10 U	6 JD	6 JD		qualify	72, 81
1,1,2,2-Tetrachloroethane	10 U	50 U	50 U	J	qualify	72, 81
Toluene	10 U	50 U	50 U	J	qualify	72, 81
Chlorobenzene	10 U	50 U	50 U	J	qualify	72, 81
Ethylbenzene	10 U	50 U	50 U	J	qualify	72, 81
Styrene	10 U	50 U	50 U	J	qualify	72, 81
Xylene (total)	10 U	50 U	50 U	J	qualify	72, 81

Page 2

Data Validation Summary Table For Former LAKA Site

Water TCL Volatile Organic Analyses - Method 95-1

Samples Received: September 21, 1998

Sample Delivery Group: 1781

Sample / Analyte	Method Blank Conc. (PPB)	Lab. Reported Conc. (PPB)	Validation Reported Conc. Decision		Qualifiers	Footnotes
Sample W1 72-73 (Lab. #: 9810778)		-				
TCL Volatile Organics	(Undiluted)					
Chloromethane	10 U	10 U	10 U	J	qualify	81
Bromomethane	10 U	10 U	10 U	J	qualify	81
Vinyl Chloride	10 U	10 U	10 U	J	qualify	81
Chloroethane	10 U	10 U	10 U	J	qualify	81
Methylene Chloride	2 J	4 JB	4 JB	J	qualify	81
Acetone	13	49	49	J	negate	2, 81
Carbon Disulfide	10 U	10 U	10 U	J	qualify	81
1,1-Dichloroethene	10 U	10 J	9 J	J	qualify	81
1,1-Dichloroethane	10 U	4 J	4 J	J	qualify	81
1,2-Dichloroethene (total)	10 U	3 J	3 J	J	qualify	81
Chloroform	10 U	10 U	10 U	J	qualify	81
1,2-Dichloroethane	10 U	10 U	10 U	J	qualify	81
2-Butanone	10 U	8 J	8 J	J	qualify	81
1,1,1-Trichloroethane	10 U	16	16	J	qualify	81
Carbon Tetrachloride	10 U	10 U	10 U	J	qualify	81
Bromodichloromethane	10 U	10 U	10 U	J	qualify	81
1,2-Dichloropropane	10 U	10 U	10 U	J	qualify	81
cis-1,3-Dichloropropene	10 U	10 U	10 U	J	qualify	81
Trichloroethene	10 U	14	15	J	qualify	81
Dibromochloromethane	10 U	10 U	10 U	J	qualify	81
1,1,2-Trichloroethane	10 U	10 U	10 U	J	qualify	81
Benzene	10 U	· 10 U	10 U	J	qualify	81
trans-1,3-Dichloropropene	10 U	10 U	10 U	J	qualify	81
Bromoform	10 U	10 U	10 U	J	qualify	81
4-Methyl-2-Pentanone	10 U	10 U	10 U	J	qualify	81
2-Hexanone	10 U	10 U	10 U	J	qualify	81
Tetrachloroethene	10 U	11	11	J	qualify	81
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	J	qualify	81
Toluene	10 U	10 U	10 U	J	qualify	81
Chlorobenzene	10 U	10 U	10 U	J	qualify	81
Ethylbenzene	10 U	10 U	10 U	J	qualify	81
Styrene	10 U	10 U	10 U	J	qualify	81
Xylene (total)	10 U	10 U	10 U	J	qualify	81
Non-Target Volatile Organics						
Unknown Hydrocarbon (9.11)	25 J	12 N	12 J	В	negate	See Text, 1,

Water TCL Volatile Organic Analyses - Method 95-1

Samples Received: September 21, 1998

Sample Delivery Group: 1781

	Method Blank Conc.	Lab. Reported Conc.	QA Validation Reported Conc.		Qualifiers	Footnotes
Sample / Analyte	(PPB)	(PPB)	Decision			
nple W1 62-63 (Lab. #: 9810779)						
TCL Volatile Organics	(Undiluted)					
Chloromethane	10 U	10 U	10 U	J	qualify	81
Bromomethane	10 U	10 U	10 U	J	qualify	81
Vinyl Chloride	10 U	10 U	10 U	J	qualify	81
Chloroethane	10 U	10 U	10 U	J	qualify	81
Methylene Chloride	2 J	4 JB	4 JB	J	qualify	81
Acetone	13	48	48	J	qualify	2, 81
Carbon Disulfide	10 U	10 U	10 U	J	qualify	81
1,1-Dichloroethene	10 U	2 J	2 J	J	qualify	81
1,1-Dichloroethane	10 U	2 J	2 J	J	qualify	81
1,2-Dichloroethene (total)	10 U	2 J	2 J	J	qualify	81
Chloroform	10 U	10 U	10 U	J	qualify	81
1,2-Dichloroethane	10 U	10 U	10 U	J	qualify	81
2-Butanone	10 U	7 J	7 J	J	qualify	81
1,1,1-Trichloroethane	10 U	5 J	5 J	J	qualify	81
Carbon Tetrachloride	10 U	10 U	10 U	J	qualify	81
Bromodichloromethane	10 U	10 U	10 U	J	qualify	81
1,2-Dichloropropane	10 U	10 U	10 U	J	qualify	81
cis-1,3-Dichloropropene	10 U	10 U	10 U	J	qualify	81
Trichloroethene	10 U	4 J	4 J	j	qualify	81
Dibromochloromethane	10 U	10 U	10 U	J	qualify	81
1,1,2-Trichloroethane	10 U	10 U	10 U	J	qualify	81
Benzene	10 U	10 U	10 U	J	qualify	81
trans-1,3-Dichloropropene	10 U	10 U	10 U	J	qualify	81
Bromoform	10 U	10 U	10 U	J	qualify	81
4-Methyl-2-Pentanone	10 U	10 U	10 U	J	qualify	81
2-Hexanone	10 U	10 U	10 U	J	qualify	81
Tetrachloroethene	10 U	2 J	2 J	j	qualify	81
1,1,2,2-Tetrachioroethane	10 U	10 U	10 U	J	qualify	81
Toluene	10 U	10 U	10 U	J	qualify	81
Chlorobenzene	10 U	10 U	10 U	J	qualify	81
Ethylbenzene	10 U	10 U	10 U	J	qualify	81
Styrene	10 U	10 U	10 U	j	qualify	81
Xylene (total)	10 U	10 U	10 U	J	qualify	81
Non-Target Volatile Organics						
Ethane, 1,1,2-trichloro-1,2 (9.15)	25 J	8 N	8 N	JB	qualify	64

DATA VALIDATION WORKSHEETS For Former LAKA Site

Soil Volatile Organic Analyses - Method 95-1

Samples Received: September 21, 1998

Sample Delivery Group: 1781 Laboratory Reference Number:

W1 92-93 9810777
W1 92-93DL 9810777DL
W1 72-73 9810778
W1 72-73MS 9810778MS
W1 72-73MSD 9810778MSD
W1 62-63 8710779

VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: HP5970BC

Level: Low

Tune File ID: C9857

Acceptable: yes

Time Requirements Met: yes

Initial Calibration File ID: C9858

Date: 8/24/98 Page: V-98

Associated Samples: VBLKC83, HBLK02, W1 92-93, W1 72-73, W163-63, , W1 72-73MSD,

VBLKC84, W1 92-93DL

TCL COMPOUND LIST

	%RSD	RRF		%RSD	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<20.5	>0.100	cis-1,3-Dichloropropene *	<20.5	>0.200
Vinyl Chloride *	<20.5	>0.100	Trichloroethene *	<20.5	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<20.5	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<20.5	>0.100
Acetone	<100	>0.010	Benzene *	<20.5	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<20.5	>0.100
1,1-Dichloroethene *	<20.5	>0.100	Bromoform *	<20.5	>0.100
1,1-Dichloroethane *	<20.5	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<20.5	>0.200	Tetrachloroethene *	<20.5	>0.200
1,2-Dichloroethane *	<20.5	>0.100	1,1,2,2-Tetrachloroethane *	<20.5	>0.500
2-Butanone	<100	>0.010	Toluene *	<20.5	>0.400
1,1,1-Trichloroethane *	<20.5	>0.100	Chlorobenzene *	<20.5	>0.500
Carbon Tetrachloride *	<20.5	>0.100	Ethylbenzene *	<20.5	>0.100
Bromodichloromethane *	<20.5	>0.200	Styrene *	<20.5	>0.300
			Xylenes (total)	<20.5	>0.300

Surrogates:

All Compounds Average RRF >QC Limit: yes

All Compounds Average RRF > 0.05: yes

All Compounds %RSD < QC Limit: yes All Compounds %RSD < 100%: yes Footnote:

Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOU	ND:	1,1-Dichloroethene	Tetrachloroethane	
PPB				
10	2810	7/81844 * 5.000 = 1.7171	42316/354691 * 5.000 =	0.5965
20	5805	9/79705 * 2.500 = 1.8211	86573/344576 * 2.500 =	0.6281
50	1269	48/79320 * 1.000 = 1.6005	187458/332411 * 1.000 =	0.5639
100	3049	78/82544 * 0.500 = 1.8474	449630/359577 * 0.500 =	0.6252
200	4544	92/69433 * 0.250 = 1.6364	653747/291887 * 0.250 =	0.5599
A	V. RRF = 1.7245	%RSD = 6.33%	AV. $RRF = 0.5947$	%RSD = 5.4

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: HP5970BC

Level: Low

Tune File ID: C0749

Acceptable: yes Date: 10/12/98

Time Requirements Met: yes

Calibration File ID: C0750

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Initial Calibration File ID: C9858

Date: 8/24/98

Page: V-98

Associated Samples: VBLKC83, HBLK02, W1 92-93, W1 72-73, W163-63, , W1 72-73MS, W1 72-73MSD

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300

Surrogates:

Toluene-d8 <100 >0.01 >0.20 Bromofluorobenzene * <25.0 1,2-Dichloroethane-d4 <100 >0.01

All Compounds Average RRF >QC Limit: yes

All Compounds Average RRF > 0.01: yes All Compounds %D < QC Limit: yes

Footnote: Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:

1,1-Dichloroethane

Trichloroethene

PPB

50 236550/89412 * 1.000 = 2.646 216390/455355 * 1.000 = 0.475

%D: (3.2262 - 2.6456) / 3.2262 * 100 = 17.99640

%D: (0.4855 - 0.4752) / 0.4855 * 100 = 2.1215242

METHOD BLANK: VBLKC83

(Page V-118)

Compound Methylene Chloride Unknown Hydrocarbon (9.24) ppb 2Ĵ 25N

<CRDL 10 NA

VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Instrument ID: HP5970BC Level: Low

Tune File ID: C0767 Acceptable: yes Time Requirements Met: yes

Calibration File ID: C0768 Date: 10/13/98 Page: 100
Initial Calibration File ID: C9858 Date: 8/24/98 Page: 98

Associated Samples: VBLKC84, W1 92-93DL

TCL COMPOUND LIST

	%D	RRF		%D	RRF
Chloromethane	<100	>0.010	1,2-Dichloropropane	<100	>0.010
Bromomethane *	<25.0	>0.100	cis-1,3-Dichloropropene *	<25.0	>0.200
Vinyl Chloride *	<25.0	>0.100	Trichloroethene *	<25.0	>0.300
Chloroethane	<100	>0.010	Dibromochloromethane *	<25.0	>0.100
Methylene Chloride	<100	>0.010	1,1,2-Trichloroethane *	<25.0	>0.100
Acetone	<100	>0.010	Benzene *	<25.0	>0.500
Carbon Disulfide	<100	>0.010	trans-1,3-Dichloropropene *	<25.0	>0.100
1,1-Dichloroethene *	<25.0	>0.100	Bromoform *	<25.0	>0.100
1,1-Dichloroethane *	<25.0	>0.200	4-Methyl-2-Pentanone	<100	>0.010
1,2-Dichloroethene (total)	<100	>0.010	2-Hexanone	<100	>0.010
Chloroform *	<25.0	>0.200	Tetrachloroethene *	<25.0	>0.200
1,2-Dichloroethane *	<25.0	>0.100	1,1,2,2-Tetrachloroethane *	<25.0	>0.500
2-Butanone	<100	>0.010	Toluene *	<25.0	>0.400
1,1,1-Trichloroethane *	<25.0	>0.100	Chlorobenzene *	<25.0	>0.500
Carbon Tetrachloride *	<25.0	>0.100	Ethylbenzene *	<25.0	>0.100
Bromodichloromethane *	<25.0	>0.200	Styrene *	<25.0	>0.300
			Xylenes (total)	<25.0	>0.300

Surrogates:

Toluene-d8 <100 >0.01 Bromofluorobenzene * <25.0 >0.20 1,2-Dichloroethane-d4 <100 >0.01

All Compounds Average RRF >QC Limit:

All Compounds Average RRF > 0.01: All Compounds %D < QC Limit: Footnote:

CALCULATION VERIFICATION: (RRF = Ais/Ax*Cis/Cs)

COMPOUND:

Vinyl Chloride

1,1,2,2-Tetrachloroethane

PPB

50

86756/82436 * 1.0000 = 1.0524

152463/352035 * 1.000 = 0.433

%D: (0.8691 - 1.0524) / 0.8691 * 100 = -21.09078 %D: (0.3665 - 0.4331) / 0.3665 * 100 = -18.1718963

METHOD BLANK: VBLK

Compound

(Page)

ppb

<CRDL

No compounds were detected in this method blank Methylene Chloride

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APPENDIX G GROUNDWATER SAMPLE ANALYTICAL DATA SUMMARY SHEETS

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LAWLER, MATUSKY & SKELLY ENGINEERS LLP

Analytical Data Report

MAR 1 2 1998

for

For Hazardous Waste Section

L M S One Blue Hill Plaza Pearl River, NY 10965

Project: NYSDEC LAKA (650-272)

Accredited Laboratories Case No.: 8342
Date Received: 02/10/98,02/11/98,02/12/98,02/13/98

Field ID	Laboratory Sample #
FLMW-206A	9801435
DOAK MW-3	9801436
MW-201	9801459
FB-1	9801460
FB-2	9801461
FLMW-205A	9801462
FLMW-205D	9801463
FB	9801464
TB-1/2	9801465
FLMW-206B	9801496
MW-202	9801497
FLMW-202B	9801498
FLMW-204B	9801499
TB 3/4	9801500
DOAKMW-2	9801510
DOAKMW-1	9801511
FLMW-204A	9801512
FLMW-205B	98015 13
MW-203	9801514



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LAWLER, MATUSKY & SKELLY ENGINEERS LLP

Analytical Data Report

for

MAR 1 2 1998

LKS One Blue Hill Plaza Pearl River, NY 10965

For Hazardous Waste Section

Project: NYSDEC LAKA (650-272)

Accredited Laboratories Case No.: 8342 Date Received: 02/10/98,02/11/98,02/12/98,02/13/98

> Laboratory Field ID Sample # TB 5/6 9801515

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Yun-shen Lee, Ph.D.3/5/98 Technical Director

1 INORGANIC ANALYSES DATA SHEET

EDV	SAMPLE	NO
77.7	DANIE DE	110

mab Name: ACCF	REDITED_LABS	_INC	Contract: _			FI	LMW-206A
ab Code:	Ca	se No.: 83	42A_ SAS No.	:		SDG	No.: 8342
Matrix (soil/w	vater): WATE	R		La	b Samp	le ID:	9801435
evel (low/med): LOW Date Re							02/10/98
% Solids:	0.	0					
• Co	oncentration	Units (ug	/L or mg/kg dry	y w	eight)	: UG/I	J
***	CAS No.	Analyte	Concentration	С	Q	M	
	7429-90-5	Aluminum_	9070	, , -	EN	P P	
-	7440-36-0	Antimony_	29.5			F	
	7440-38-2 7440-39-3	ArsenicBarium	2.0	U B	E	P P	
	7440-39-3	Beryllium	0.39		E	P-	
	7440-41-7	Cadmium	5.8	บ -		P-	
	7440-70-2	Calcium	21800		E	P-	
	7440-47-3	Chromium	21.5	- -		P	
	7440-48-4	Cobalt	7.3	Ū -		P-	
	7440-50-8	Copper	22.6	1		P	
	7439-89-6	Iron	21400	- -	E	P-	
	7439-92-1	Lead	11.1	- -		F	
	7439-95-4	Magnesium	6420		E	P	
	7439-96-5	Manganese	116	- -	E	P	
	7439-97-6	Mercury	0.23			CV	
	7440-02-0	Nickel	7.7	Ū		P	
-	7440-09-7	Potassium	3670	В		P	
	7782-49-2	Selenium	2.5	ַ ע		F	
-	7440-22-4	Silver	10.4	-		P_	
	7440-23-5	Sodium	6710		E	P	
	7440-28-0	Thallium_	2.5	U		F_	
	7440-62-2	Vanadium_	47.0	B _		P	
	7440-66-6	Zinc	26.4		*	P_	
		Cyanide	3.4	В		C_	
Color Before:	YELLOW	Clarit	cy Before: CLOU	JDY		Textu	re:
olor After:	COLORLESS	Clarit	cy After: CLEA	AR_		Artif	acts:
	GINEERS LLP						<i>I-1</i>
MAR	1 2 1998						

U.S. EPA - CLP

1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

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ab Name: ACC	REDITED_LABS	_INC	Contract:			
ab Code:	Ca	se No.: 83	42A_ SAS No.	: _		SDG No.: 8342_
Matrix (soil/	water): WATE	ER .		La	b Samp	ole ID: 9801436
evel (low/med	d): LOW_			Da	te Rec	ceived: 02/10/98
Solids:	0.	0				
Co	oncentration	Units (ug	/L or mg/kg dr	y w	eight)	: UG/L_
	CAS No.	Analyte	Concentration	C	Q	M
	7429-90-5	Aluminum	1600	-	EN	$-\left {P}\right $
	7440-36-0	Antimony -	29.5			- _P
	7440-38-2	Arsenic	2.0	ַ U		- F -
	7440-39-3	Barium	45.2	В	E	P
	7440-41-7	Beryllium	0.30	U		P
	7440-43-9	Cadmium	5.8	U.		P
	7440-70-2	Calcium	11900		E	P
	7440-47-3	Chromium	8.8	Ū		P
	7440-48-4	Cobalt	7.3	U		P
	7440-50-8	Copper	7.4	В		P
	7439-89-6	Iron	3010		E	P
	7439-92-1	Lead	2.3	Ū		- _F
	7439-95-4	Magnesium	3310	В	E	P_
	7439-96-5	Manganese			E	- P -
	7439-97-6	Mercury	0.20			- cv
	7440-02-0	Nickel	7.7	Ū		P
	7440-09-7	Potassium	1300	B		P
	7782-49-2	Selenium	2.5			F
	7440-22-4	Silver	6.6	็บไ		P
	7440-23-5	Sodium	4660		E	- p-
	7440-28-0	Thallium	2.5			- F-
	7440-62-2	Vanadium	7.1			- P
	7440-66-6	Zinc	29.5		*	P
		Cyanide	4.2	\overline{B}		- c-
Color Before:	COLORLESS	Clari	ty Before: CLO	UDY		Texture:
Color After:	COLORLESS	Clari	ty After: CLE	AR_		Artifacts:
Comments: LAW SKELL	LER, MATUSKY Y ENGINEERS	& LLP				エース
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1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE N		EP	Α	S	A	MΡ	$^{\prime}$ L	E	NO	
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■ Lab Name: ACCF	REDITED LABS	INC.	Contract:			MW-201	L
mab Code:			42A_ SAS No.	:		SDG No.: 8	3342_
atrix (soil/v	vater): WATE	R		Lab	Samp	ole ID: 98014	59
evel (low/med	d): LOW			Dat	e Rec	ceived: 02/11	./98
Solids:	0.	U					
Co	ncentration	Units (ug	/L or mg/kg dry	y we	ight)	: UG/L_	
•		_					
	CAS No.	Analyte	Concentration	C	Õ	M	
	7429-90-5	Aluminum	5490		EN	$\left \frac{1}{P} \right $	•
	7440-36-0	Antimony		ี −		- P	
	7440-38-2	Arsenic		· · ·		F	
	7440-39-3	Barium		B -		P P	
1	7440-33-3	Beryllium	0.51			P	
	7440-41-7	Cadmium	5.8	U		$-\left \begin{array}{c} \mathbf{r} \\ \mathbf{p} \end{array} \right $	
	7440-70-2	Calcium	17900	<u> </u>	E	P P	
	7440-70-2	Chromium	14.0		E	P	
	7440-47-3	Cobalt	7.3	$\overline{\mathbf{u}}$		P P	
		The same of the sa	25.8	· -		- P	
	7440-50-8	Copper	13000	- -	E	P P	
	7439-89-6 7439-92-1	Lead	12.7			- F -	
	7439-92-1	Magnesium	9820	_	T.	$\left \frac{\mathbf{r}}{\mathbf{P}} \right $	
	!	-	298	_ -	E E		
	7439-96-5	Manganese	0.20	$\overline{\mathbf{u}}$		$\left \begin{array}{c} \mathbf{r} \\ \mathbf{C} \overline{\mathbf{V}} \end{array} \right $	
	7439-97-6	Mercury_		· 1 —		.	
	7440-02-0	Nickel	9.8	B		P P	
	7440-09-7	Potassium	5510	$\overline{\mathbf{u}}$		P_	
	7782-49-2	Selenium_	2.5	-		F P	
	7440-22-4	Silver	6.6	$U _{-}$		· P	
	7440-23-5	Sodium_	29800 2.5	$\overline{\mathbf{u}}$	E	. 1 1	
	7440-28-0 7440-62-2	Thallium_ Vanadium	22.0	$\frac{0}{B}$		F_	
	7440-62-2	Zinc	64.3	D -	*	P P	
	7440-66-6	Cyanide	3.4	$\frac{1}{B}$	^	[C_	
		cyaniue	J • 4	B -			
olor Before:	YELLOW	Clarit	y Before: CLOU	JDY		Texture:	
olor After:	COLORLESS	Clarit	ty After: CLEA	AR_		Artifacts:	
	, MATUSKY & NGINEERS LLP				- April - Apri	<u></u> エー	3

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		INORGANIC	ANALYSES DATA	SH	EET		
ab Name: Acci	REDITED IARS	INC	Contract:			FI	L MW- 205A
			_			_	
ab Code:	Ca	se No.: 83	42A_ SAS No.	:		SDG	No.: 8342_
atrix (soil/	water): WATE	R		L	ab Samp	ole ID:	9801462
evel (low/med	d): LOW_	MANAGE.		D	ate Rec	eived:	: 02/11/98
Solids:	0.	0					
Co	oncentration	Units (ug	/L or mg/kg dr	У	weight)	: UG/I	<u>.</u>
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	54600		EN	$\left {P} \right $	
	7440-36-0	Antimony	29.5	Ū		P-	
	7440-38-2	Arsenic	18.1			F	
	7440-39-3	Barium	363	-	E	P	
	7440-41-7	Beryllium	2.5	\overline{B}		P	
	7440-43-9	Cadmium	9.4			P	
	7440-70-2	Calcium	16200		E	P	
	7440-47-3	Chromium	85.8	_		P	
	7440-48-4	Cobalt	16.6	\overline{B}		P_	
	7440-50-8	Copper	86.6			P	
	7439-89-6	Iron	117000		E	P_	
	7439-92-1	Lead	73.0		S	F_	
	7439-95-4	Magnesium	9510	_	E	P_	
	7439-96-5	Manganese	666	_	E	P_	
	7439-97-6	Mercury_	0.20			CV	
	7440-02-0	Nickel	27.0	В		P_	
	7440-09-7	1	6420	-		P_	
	7782-49-2		2.5	Ū	W	F_	
	7440-22-4	Silver	49.4	_		P_	
	7440-23-5 7440-28-0	Sodium Thallium	2.5	$\overline{\mathbf{u}}$	E	P F	
	7440-28-0	Vanadium	259	U		P-	
	7440-66-6	Zinc	96.2	-	*	P-	
	7440 00 0	Cyanide	4.2	\overline{B}		C C	
olor Before:	YELLOW	Clarit	cy Before: CLO	עםני ז'סני	<i>l</i>	Textu	ıre:
olor After:	COLORLESS	Clarit	ty After: CLEA	AR_	-	Artif	acts:
Comments LAWLER	AAATHOUV O						7-11
SKELLY E	NATUSKY &						
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I INORGANIC ANALYSES DATA SHEET

EDA	SAMPLE	NO

: ab Name: ACCR	EDITED LABS	INC.	Contract:			FLMW-205D
ab Code:			42A_ SAS No.	:		SDG No.: 8342
atrix (soil/w	ater): WATE	R		La	b Samp	le ID: 9801463
evel (low/med): LOW_	_		Da	te Rec	eived: 02/11/98
Solids:	0.	_ ∩				
501105.		O				
Co	ncentration	Units (ug	/L or mg/kg dry	y w	eight)	: UG/L_
	CAS No.	Analyte	Concentration	С	Q	T _M
		1			*	
	7429-90-5	Aluminum_	49300		EN	P
	7440-36-0	Antimony_	29.5	Ū		P_
	7440-38-2	Arsenic_	13.6	_		F_
	7440-39-3	Barium	319		E	P_
	7440-41-7	Beryllium	2.3	В		ID I
	7440-43-9	Cadmium	7.1			P_
	7440-70-2	Calcium_	12600		E	P_
	7440-47-3	Chromium_	80.2			P
	7440-48-4	Cobalt_	16.9	В		P_
	7440-50-8	Copper	72.5			P_
	7439-89-6	Iron	99300		E	IP
	7439-92-1	Lead	73.2		S	F_
	7439-95-4	Magnesium	7450		E	P_
	7439-96-5	Manganese	565	_	E	P_
	7439-97-6	Mercury_	0.20	U		$ C\overline{V} $
	7440-02-0	Nickel	24.1	В		P_
	7440-09-7	Potassium	5970			P_
	7782-49-2	Selenium_	2.5	Ū	W	F
	7440-22-4	Silver	41.1			D
	7440-23-5	Sodium	19300	_	E	P_
	7440-28-0	Thallium_	2.5	U		F_
	7440-62-2	Vanadium_	220	_		P_
	7440-66-6	Zinc	78.8	_	*	P_
		Cyanide	3.4	В	<u> </u>	c_
olor Before:	YELLOW	Clarit	ty Before: CLO	JDY		Texture:
olor After:	COLORLESS	Clarit	ty After: CLE	AR_		Artifacts:
omments:						ب
i AWLER	, MATUSKY &					1-5
SKELLY E	NGINEERS LLI)				
	1 2 1998					

For Hazardous Waste Section

Lab Name: ACCREDITED_LABS_INC.____ Contract: ____

For Hazardous Waste Section

1 INORGANIC ANALYSES DATA SHEET

	EPA	SAMPLE	NO.
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latrix (SOII)	water): warr	K		тар затр	1e 1D: 980146	4
evel (low/me	d): LOW_			Date Rec	eived: 02/11/	98
Solids:	0.	0				
С	oncentration	Units (ug	/L or mg/kg dry	y weight)	: UG/L_	
	CAS No.	Analyte	Concentration	C Q	М	
	7429-90-5	Aluminum	97.1	B EN	$\left {P} \right $	
	7440-36-0	Antimony	29.5		P-	
	7440-38-2	Arsenic	2.0		F	
	7440-39-3	Barium	1.4	1	P-	
	7440-41-7	Beryllium	0.30		$ \hat{P}^- $	
	7440-43-9	Cadmium	5.8	1 1	P	
	7440-70-2	Calcium	132		P	
	7440-47-3	Chromium	8.8		P	
	7440-48-4	Cobalt	7.3		P	
	7440-50-8	Copper	4.9	1	P	
	7439-89-6	Iron	725		P	
	7439-92-1	Lead	2.3	Ū	F	
	7439-95-4	Magnesium	27.2	B E	P	
	7439-96-5	Manganese	2.1		P	
	7439-97-6	Mercury	0.20		CV	
	7440-02-0	Nickel	7.7		P	
	7440-09-7	Potassium	1710		P-	
	7782-49-2	Selenium	2.5		F	
	7440-22-4	Silver	6.6	U	p -	
	7440-23-5	Sodium	263	B E	p -	
	7440-28-0	Thallium	2.5	U	F	
	7440-62-2	Vanadium_	6.6	U	P	
	7440-66-6	Zinc	11.6	U *	P	
		Cyanide	3.4	В	c	
	anomanomanomanomanomanomanomanomanomanom					
olor Before:	COLORLES_	Clari	ty Before: CLE	AR_	Texture: _	
olor After:	COLORLESS	Clari	ty After: CLE	AR_	Artifacts: _	
omments: LAW SKELL	LER, MATUSKY Y ENGINEERS	& LLP			I-	6
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1 INORGANIC ANALYSES DATA SHEET

 √Lab Name: ACCR	EDITED_LABS	_INC	Contract: _			FLMW-206B
ab Code:	Ca	se No.: 83	42A SAS No.	:		SDG No.: 8342
Matrix (soil/w	vater): WATE	R		Lal	b Samp	le ID: 9801496
Tevel (low/med	l): LOW_			Dat	te Rec	eived: 02/12/98
Solids:	0.		/L or mg/kg dry	y we	eight)	: UG/L_
-	CAS No.	Analyte	Concentration	С	Q	M
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-47-3 7440-48-4 7440-50-8 7439-96-5 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-22-4 7440-23-5	Sodium	492 29.5 2.0 101 0.30 5.8 15300 8.8 7.3 14.8 1350 2.3 6190 146 0.20 7.7 3460 2.5 6.6 23700		EN W E E E E E E E E E E E E E E E E E E	P
	7440-28-0 7440-62-2 7440-66-6	Thallium_ Vanadium_ Zinc_ Cyanide	2.5 6.6 42.7 5.1	U - B -	**	F_ P_ P_ C_
Color Before:	COLORLES_	Clarit	cy Before: CLEA	AR_		Texture:
tolor After:	COLORLESS	Clarit	ty After: CLEA	AR_		Artifacts:
Comment SWLER, SKELLY EN	MATUSKY & GINEERS LLP 1 2 1998					I-7

INORGANIC ANALYSES DATA SHEET

Lab Na	ame: AC	CREDITED_LABS	_INC	Contract: _			MW-202
Lab Co	ode:	Ca	se No.: 83	42A_ SAS No.	: _		SDG No.: 8342_
Matri	k (soil	/water): WATE	R		Lá	ab Samp	ole ID: 9801497
Level	(low/m	ed): LOW_			Da	ate Red	ceived: 02/12/98
% Sol:	ide	0.	0				
0 0011	Lus.		O				
		Concentration	Units (ug	/L or mg/kg dr	У	weight)	: UG/L_
		03.6.31					T
		CAS No.	Analyte	Concentration	C	Q	M
		7429-90-5	Aluminum	5010	-	EN	- -
		7440-36-0	Antimony	29.5	ਹੋ	EN_	- P
		7440-38-2	Arsenic	2.0			- F
		7440-39-3	Barium	62.8		E	- P
			Beryllium	0.30			- -
			Cadmium	5,8			- F -
		7440-70-2	Calcium	20400		E	- P-
		7440-47-3	Chromium	8.8			- P
		7440-48-4	Cobalt	7.3			P
		7440-50-8	Copper	14.8			- - P
		7439-89-6	Iron	9280	-	E	- P
		7439-92-1	Lead	2.3	บิ	***************************************	- F-
		7439-95-4	Magnesium	4370		E	P
		7439-96-5	Manganese	30.9		Е	P
		7439-97-6	Mercury	0.24			cv
		7440-02-0	Nickel Nickel	7.7		******	P P
		1	Potassium	3450	В		
			Selenium_	2.5	U		F
		7440-22-4	***************************************	6.6	U		P_
		7440-23-5	Sodium	7100		E	P
		7440-28-0	Thallium_	2.5			- F
		7440-62-2	Vanadium_	19.5	В		P
		7440-66-6	Zinc	976	<u>_</u>	**	- P
			Cyanide	7.6	В		C
Color	Before	: YELLOW	Clarit	cy Before: CLO	JDY	<i>l</i>	Texture:
Color	After:	COLORLESS	Clarit	ty After: CLE	AR_		Artifacts:
Commer	nts::A\M	ER, MATUSKY &			_		T-8
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		INORGANIC	ANALYSES DATA	SHEE	T	
Tah Name: ACC	ספו הפתותפת	TNC	Contract:			FLMW-202B
ab Name. Acc.	VEDITED_TWD9	_INC.	Concract			
ab Code:	Ca	se No.: 83	42A_ SAS No.	•		SDG No.: 8342
atrix (soil/	water): WATE	R		Lab	Sampl	le ID: 9801498
Level (low/med	d): LOW_			Dat	e Rece	eived: 02/12/98
Solids:	0.	0				
Co	oncentration	Units (ug	/L or mg/kg dry	y we	ight):	UG/L_
-	CAS No.	Analyte	Concentration	С	Q	M
-	7429-90-5 7440-36-0 7440-38-2	Aluminum_ Antimony_ Arsenic	303 29.5 2.0	Ū _	EN_	P_ P_ F
-	7440-39-3 7440-41-7 7440-43-9	Barium Beryllium Cadmium	54.9	B	E	P_ P_ P
-	7440-70-2 7440-47-3 7440-48-4	Calcium_ Chromium_ Cobalt			_	P_ P_ P
•	7440-50-8 7439-89-6 7439-92-1	Copper Iron Lead	14.6 997 2.3		_E	P_ P_ F_
•	7439-95-4 7439-96-5 7439-97-6	Magnesium Manganese Mercury	0.20		E	P_ P_ CV
	7440-09-7 7782-49-2	Nickel_ Potassium Selenium_	23300 2.5	Ū Ū		P_ P_ F_
•	7440-22-4 7440-23-5 7440-28-0 7440-62-2	Silver Sodium Thallium_ Vanadium	6.6 33900 2.5 6.6	<u>u</u> –	_W	P P P P P P P P P P P P P P P P P P P
	7440-66-6	Zinc Cyanide	16.9 5.9	В		P_ C_
Color Before:	COLORLESS	Clarit	cy Before: CLEA	' AR		' Texture:
Color After:	COLORLESS		ty After: CLEA	_		Artifacts:
omments LAWLE SKELLY	R, MATUSKY & ENGINEERS LL	P				I-9

MAR 1 2 1998

1 THORGANIC ANALYSES DATA SHEET

Lab Name:	ACCREDIT	TED LABS	INC.	Contract:			F	L MW -204B
Lab Code:				42A_ SAS No.	:		SDG	No.: 8342
Matrix (so	oil/water			_				- : 980 1 499
Level (low	v/med):	LOW			D:	ate Rec	eived:	: 02/12/98
	,,		•					. 02/12/30
% Solids:		0.	0					
	Concer	ntration	Units (ug	/L or mg/kg dr	y (weight)	: UG/I	
	CAS	S No.	Analyte	Concentration	С	Q	М	
	742	9-90-5	Aluminum	214		EN	P	
		10-36-0	Antimony	29.5	Ū		P_	
	744	10-38-2	Arsenic_	2.0			F	
	744	10-39-3	Barium —	95.2	В	E	P	
	744	0-41-7	Beryllium	0.30	U		P	
	744	0-43-9	Cadmium	5.8			P	
	744	10-70-2	Calcium	21800	_	E	P	
	744	10-47-3	Chromium_	8.8			P_	
	744	0-48-4	Cobalt	7.3	į.		P_	
	744	0-50-8	Copper	13.0	В		P_	
	743	89-89-6	Iron	393		E	P_	
	1	39-92-1	Lead	2.3	Ū		F_	
		9-95-4	Magnesium	10500		E	P_	
	1	9-96-5	Manganese	339		E	P_	
	1	9-97-6	Mercury	0.20			CV	
	,	10-02-0	Nickel	7.7			P_	
		10-09-7	Potassium	4450	1		P_	
		32-49-2	Selenium_	2.5			F_	
	l l	10-22-4	Silver	6.6	1		P_	
	l l	10-23-5	Sodium	23900		E	P_	
		10-28-0	Thallium_	2.5	1	W	F_	
	l	10-62-2	Vanadium_	6.6	U		P_	
	/44	10-66-6	Zinc	45.0	-	*	P_	
			Cyanide	4.2	В		C_	
Color Befo	ore: COI	LORLESS	Clari	ty Before: CLE	AR		Text	ıre:
Color Afte		LORLESS	Clari	ty After: CLE	- כד ג	or voice.	N m+ i ·	foata.
				ty After: CLE	MK.		WI (T)	facts:
Comments K	AWLER, M ELLY ENG	INEERS L	a LP					I-1
	AAAD 4	0.4000						
	MAR 1	۷ 1330						

1 INORGANIC ANALYSES DATA SHEET

EDV	SAMPLE	NO
LIFA	CHILLIA	INC.

Jab Name: ACCF	REDITED_LABS	_INC	Contract: _		DOAKM	IW-2
➡ab Code:	Ca	se No.: 83	42A_ SAS No.	•	SDG No.:	8342
latrix (soil/w	ater): WATE	R		Lab Samp	ole ID: 980	1510
Level (low/med	l): LOW_			Date Red	ceived: 02/	13/98
Solids:	0.					
Co	ncentration	Units (ug	/L or mg/kg dry	y weight)	: UG/L_	
	CAS No.	Analyte	Concentration	C Q	М	
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-96-5 7439-96-5 7439-97-6 7440-02-0 7440-09-7 7782-49-2 7440-23-5 7440-28-0 7440-66-6	Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc Cyanide	4340 8.8 7.3 6.1 1500 2.3 2150 51.0 0.20 12.6 2290 2.5 6.6 5320 2.5 6.6 219	U B E U U B E U B E U B B B U U U E U V C C C C C C C C C C C C C C C C C C	P	
color Before:	COLORLESS	Clarit	cy Before: CLEA	AR_	Texture:	
Color After:	COLORLESS	Clarit	ty After: CLEA	AR_	Artifacts	*
OmmentsiWLER, SKELLY EN	MATUSKY & NGINEERS LLP					I-11

1 INORGANIC ANALYSES DATA SHEET

EPA	SAMPLE	NO
T1 T L1	DULLE	TY C

Lab N	ame: ACCF	DOAKMW-1					
Lab Co	ode:	Ca	se No.: 83	42A_ SAS No.	: _		SDG No.: 8342
Matri	x (soil/w	water): WATE	R		Lá	ab Samp	ole ID: 9801511
Level	(low/med	l): LOW_	··		Da	ate Rec	eived: 02/13/98
% Sol:	ids:	0.	0				
	Co	ncentration	Units (ug	/L or mg/kg dr	y v	weight)	: UG/L_
		CAS No.	Analyte	Concentration	С	Q	М
		7429-90-5	Aluminum	625		EN	$\left {P} \right $
		7440-36-0	Antimony	29.5	Ū		P
		7440-38-2	Arsenic	2.0			F
		7440-39-3	Barium	129		E	P
		7440-41-7	Beryllium		U		P
		7440-43-9	Cadmium	5.8	U	***************************************	p
		7440-70-2	Calcium	12100		E	P
		7440-47-3	Chromium	8.8	Ū	Agricultural and the second se	p
		7440-48-4	Cobalt	7.3	U		P
		7440-50-8	Copper	4.9	U		p _
		7439-89-6	Iron	718		E	P_
		7439-92-1	Lead	2.3	Ū		F
		7439-95-4	Magnesium	4940	В	E	p
		7439-96-5	Manganese	300		E	P
		7439-97-6	Mercury	0.25			cV
		7440-02-0	Nickel	7.7	Ū		P
		7440-09-7	Potassium	3480	В		P
		7782-49-2	Selenium	2.5	U		F
		7440-22-4	Silver	6.6	U		P_
		7440-23-5	Sodium	50600		E	P_ F_
		7440-28-0	Thallium_	2.5	U	W	
		7440-62-2	Vanadium_	6.6			P
		7440-66-6	Zinc	11.6		*	P_
			Cyanide	3.4	В		C_
Color	Before:	COLORLESS	Clari	ty Before: CLE	AR_	_	Texture:
Color	After:	COLORLESS	Clari	ty After: CLE	AR_	_	Artifacts:
Commer	ts: LAWLER, I	MATUSKY & GINEERS LLP	7				J-1
	MAR	1 2 1998					The state of the s

EPA SAMPLE NO. INORGANIC ANALYSES DATA SHEET FLMW-204A Lab Name: ACCREDITED_LABS_INC.__ Contract: ____b Code: _____ Case No.: 8342A_ SAS No.: ____ SDG No.: 8342_ Litrix (soil/water): WATER Lab Sample ID: 9801512 Level (low/med): LOW Date Received: 02/13/98 Solids: 0.0 Concentration Units (ug/L or mg/kg dry weight): UG/L CAS No. Analyte Concentration C M 7429-90-5 Aluminum 16700 P Antimony_ 7440-36-0 29.5 U P^{-} 7440-38-2 Arsenic 2.0 U \mathbf{F}^{-} 7440-39-3 Barium 108 B \mathbf{P}^{-} 7440-41-7 4.7 P_ Beryllium В P^{-} 7440-43-9 Cadmium 8.0 Calcium 14900 P 7440-70-2 p⁻ 39.7 7440-47-3 Chromium 7.3 U P_ 7440-48-4 Cobalt 7440-50-8 Copper 52.2 P^{-} 39000 P^{-} 7439-89-6 Iron \mathbf{F}^{-} 7439-92-1 Lead 16.2 7439-95-4 Magnesium 3870 P 7439-96-5 Manganese 234 P $\bar{0}.25$ 7439-97-6 Mercury $C\overline{V}$ 7440-02-0 Nickel 26.0 B P Potassium 2770 B P^{-} 7440-09-7 7782-49-2 Selenium 2.5 U F P^{-} 7440-22-4 Silver 18.9 P^{-} 7440-23-5 Sodium 5710 Thallium 2.5 U F^{-} 7440-28-0 Vanadium P 7440-62-2 71.9 7440-66-6 Zinc 220 P Cyanide 4.2 B olor Before: YELLOW Clarity Before: CLOUDY Texture: Color After: COLORLESS Clarity After: CLEAR Artifacts: omments!AWLER, MATUSKY & SKELLY ENGINEERS LLP

MAR 1 2 1998

1 THORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: ACC	CREDITED LABS	INC.	Contract:				FLMW-205B
Lab Code:			 12A_ SAS No.	:		- ' S:	DG No.: 8342
Matrix (soil,	/water): WATE		_				TD: 9801513
.evel (low/ma	ed): LOW				_		ed: 02/13/98
		_		20	ice nec) C I V	cu: 02/15/50
Solids:	0.	0					
(Concentration	Units (ug,	/L or mg/kg dry	y w	/eight)	: U	G/L_
	CAS No.	Analyte	Concentration	С	Q	M	
	7429-90-5	Aluminum	846		EN	$-\frac{1}{P}$	
	7440-36-0	Antimony -	29.5			P_	
	7440-38-2	Arsenic	2.0			F	
	7440-39-3	Barium	99.8		E	P_	
	7440-41-7	Beryllium	0.48	В		P_	
	7440-43-9	Cadmium	5.8	U		P_	
	7440-70-2	Calcium	14000		E	P	
	7440-47-3	Chromium	15.2	_		P	
	7440-48-4	Cobalt	7.3	Ū		P_	
	7440-50-8	Copper	18.8	В		P_	
	7439-89-6	Iron	1240		E	P	
	7439-92-1	Lead	4.4	_	-	F	
	7439-95-4	Magnesium	6180		E	P	
	7439-96-5	Manganese	546	-	E	P	
	7439-97-6	Mercury	0.20	\overline{U}		CV	
	7440-02-0	Nickel	52.6			P	
	7440-09-7	Potassium	6040			P_	
	7782-49-2	Selenium	2.5	Ū	***************************************	F	
	7440-22-4	Silver	6.6			P_	
	7440-23-5	Sodium	24900	_	E	P_	
	7440-28-0	Thallium_	2.5		W	F_	
	7440-62-2	Vanadium_	6.6			P_	
	7440-66-6	Zinc	233		*	P_	
		Cyanide	3.4	В		_ c_	
olor Before	: COLORLESS	Clari	ty Before: CLE	AR_	-	Te	xture:
olor After:	COLORLESS	Clari	ty After: CLE	AR_		Ar	tifacts:
omments:	ER, MATUSKY &						1-1
SKELLY	ENGINEERS LLI	O					

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1 INORGANIC ANALYSES DATA SHEET

ab Name: ACCF	REDITED_LABS	_INC	Contract: _	····		MW-203
mb Code:	Ca	se No.: 83	42A_ SAS No.	:		SDG No.: 8342_
atrix (soil/w	water): WATE	R		La	b Samp	ole ID: 9801514
evel (low/med	l): LOW_			Da	te Red	ceived: 02/13/98
Solids:	0.	0				
Сс	ncentration	Units (ug	/L or mg/kg dry	y w	eight)	: UG/L_
	CAS No.	Analyte	Concentration	С	Q	M
	7429-90-5	Aluminum	30800	- -	EN	P
	7440-36-0	Antimony	29.5	<u> </u>		- P
	7440-38-2	Arsenic	34.1			- F
	7440-38-2	Barium	205	-	E	- P -
	7440-39-3	Beryllium	1.5	$\left \frac{1}{B} \right $		- P-
	7440-41-7	Cadmium	5.8	บ -		
	7440-70-2	Calcium	28700		E	- P
	7440-47-3	Chromium	92.0	- -		- P
	7440-48-4	Cobalt	10.3	$ \bar{\mathbf{B}} $		- P
	7440-50-8	Copper	60.6	-		- P -
	7439-89-6	Iron	66400	-	E	- P -
	7439-92-1	Lead	48.6	- -	s	- F-
	7439-95-4	Magnesium	9070		E	- P
	7439-96-5	Manganese	2000			- P
	7439-97-6	Mercury	0.29	- -		$- c\overline{v} $
	7440-02-0	Nickel	51.4	- -		P
	7440-09-7	Potassium	5760	- -		$-\left \frac{1}{P}\right $
	7782-49-2	Selenium	2.5	$\overline{\mathbf{U}}$		
	7440-22-4	Silver	27.1			- P
	7440-23-5	Sodium	28400		E	P
	7440-28-0	Thallium	2.5	Ū -	\overline{w}	F
	7440-62-2	Vanadium	163	- -	· · · · · · · · · · · · · · · · · · ·	P-
	7440-66-6	Zinc	57.4		*	P
	And the second s	Cyanide	3.4	\overline{B}		[c_
lor Before:	YELLOW	Clarit	cy Before: CLOU	JDY		Texture:
lor After:	COLORLESS	Clarit	Artifacts:			
mments:						



ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

Analytical Data Report

MAR 0 9 1998

for

For Hazardous Waste Section

L M S One Blue Hill Plaza Pearl River, NY 10965

Project: NYSDEC LAKA (650-272)

Accredited Laboratories Case No.: 8342
Date Received: 02/10/98,02/11/98,02/12/98,02/13/98

Field ID	Laboratory Sample #
FLMW-206A	9801435
DOAK MW-3	9801436
MW-201	9801459
FB-1	9801460
FB-2	9801461
FLMW-205A	9801462
FLMW-205D	9801463
FB	9801464
TB-1/2	9801465
FLMW-206B	9801496
MW-202	9801497
FLMW-202B	9801498
FLMW-204B	9801499
TB 3/4	9801500
DOAKMW-2	9801510
DOAKMW-1	9801511
FLMW-204A	9801512
FLMW-205B	9801513
MW-203	9801514



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LAWLER, MATUSKY & SKELLY ENGINEERS LLP

Analytical Data Report

MAR 0 9 1998

for

LMS One Blue Hill Plaza Pearl River, NY 10965 For Hazardous Waste Section

Project: NYSDEC LAKA (650-272)

Accredited Laboratories Case No.: 8342 Date Received: 02/10/98,02/11/98,02/12/98,02/13/98

> Laboratory Field ID Sample # TB 5/6 9801515

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Yun-shen Lee, Ph.D.3/57 Technical Director

SDG NARRATIVE

Accredited Labs received 20 aqueous samples (Project: NYSDEC LAKA RI (650-272); ALI Case #8342) from LMS Engineers on 2/10,11,12,13/98 for the analyses of Volatile Organics, TAL Metals and Cyanide. The Volatile analysis was based on NYSDEC-ASP 95-1, the Inorganic analysis was based on NYSDEC-ASP CLP Inorganic method and Cyanide was based on 335.2 CLP-M.

All analyses were performed within the required holding time.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Yun-shen Lee, Ph.D. 3/5/98 Technical Director

M

ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FORM

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

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PAGE	1	OF ,	/

LIENT	LMS En.	linso r.s	PROJECT	NYSDEC LAKA RI (650-27
ADDRESS		Hill Plata	CONTACT	Maria Heinez
CITY	D = 0	′o	PHONE	914-735-8300
STATE	NY	ZIP 10965	FAX	914-735-7466

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
9801435	FLMW-206A	3	A	2-9-98/1515	Moniter well sample	VOCs
	FLMW-206.A	1	A	a-7-98/1520	11	CN-
	FLMW-206A	1	A	2-9-18/1525	11	Metals
9801436	DOAK MW-3	3	4	2-9-98/1545	iı	Vocs
	DOAK MW-3	1	A	2-9-98/1550	11	Metals
	DOAK MW-3	1	A	d-9-98/1555)1	CN-
				,		
	Jen XI					
	M		ب-			
					THE X	
					U - out	
**M = MATRIX	A=AQUEOUS	S=S	OiL	G=SLUDGE	P=POTABLE WATER O=O	IL F=FILTER K=SOLID X=OTHER

*C = NO. CONTA	INERS	TURNAROU	ND:				(If E	Blank, S	Std. 3 weeks)
DELIVERABLES (ci	rcle one)	STD	REDUCED	FULL	NY-A	ASP C	CLPI		CLP II
	JISHED BY			IVED BY:		ORGANIZATION	DATE	TIME	REASON
CON G. Englant	- Satt	SIGN	PRINT	SI	GN				
	180		Martinelli.	Mente	nel.	ALT	410/98	10;00	Anglysis
RSON(S) ASSUMIN	G RESPON	SIBILITY FOR	SAMPLING: PRINT:	Scott G	Engles	SIGN:	Scot	# 2	. Eglet
						ALI QUOT	E#	51	10212
OMMENTS						ALI CASE	<i>‡</i>		18342
						P.O.#			

ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FORM -

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

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PAGE	OF		

CLIENT _ LM	5 Engineers		PROJECT	NYSDEC LAKA	(650-272
ADDRESS ()~2	Blue HILP	1	CONTACT	Maria Heinez	
CITY Pea			PHONE	914-735-8300	
STATE /	/ Y ZIP	10965	FAX	914-735-7466	

ALI SAMPLE #	. FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
9801459	MW-201	3	A.	2-10-18/1400	Moniter well sample	VOC5
	MW-201 MS	3	4	2-10-58/1410	11 11 1	Vocs
	MW-201 MSD	3	A	2-10-78/1420	il 16	VOCS
9801460	Field Blook-1	١	A	2-10-78/1430	Equipment Blank	Vocs
9801461	Field Blank-2	1	A	2-10-78/1439		VOCs_
9801462	FLMW-205A	3	A	A-10-18/1730	Meniter well sample	VOC5
9801463	FLMW-205D	ì	i	2-10-98/1740	3	Vocs
	MW-201	1	A	2-10-78/1405	ir u	Mitals
	MW-201	1	A	2-10-78/1468	j. v	CN-
	MW-201 MS		A	2-10-18/1415	k V	Metals
	MW-201 MS		A	2-10-48/1418	11 1/	CN -
	MW-201MSD)	4	3-16-98/1425	11 11	Metals
	MW-201 MSD		A	2-10-98/1428	11 11	CN -
9801464	Field Black	1	A	2-10-38/1440	Equipment Black	Metals
	Field Blank	L	A	2-10-48/1445		CN
	FLMW-2054	1	A	13-10-18/1745	Movider well sample	Metals
**M = MATRIX	A=AQUEOUS	S=S	OIL	G=SLUDGE	P=POTABLE WATER O=O	IL F=FILTER K=SOLID X=OTHER

*C = NO. C	ONTAINE	RS	TURNAROU	ND:				(If E	lank, S	td. 3 wee	ks)
DELIVERABL	ES (circle	e one)	STD	REDUCED	FULL	NY-A	SP) C	LPI		CLP II	
RE	ELINQUIS	SHED BY		RECE	IVED BY:		ORGANIZATION	DATE	TIME	REASO	i N
PRINT			SIGN	PRINT	SIGI	N	OHOMIZMON	DAIL	THE	112,100	
S. # 6. E.	trelov	Lett.	g Exect								
	7	2-1	0-98			67				4	
		,	00	WAnterelli	Maluka	vell-	ALI	2/1/98	10:00	Anal	ÁU
PERSON(S) ASS	SUMING	RESPON	SIBILITY FOR	SAMPLING: PRINT:	-S. 4 6.	ENglar	₹ sign:	ACX!	文	5	T
	Press	rvatio	, of 40	ML VOC vials	s Not rea	uestid	ALI QUOT	E#	5 d	834	<u>a</u>
COMMENTS		_		y out and via	5 1		ALI CASE	#	•	$\frac{0832}{}$	5
	_			enlection of all			P.O.#				

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CHAIN OF CUSTODY FORM

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

PAGE 2 OF 2

LIENT	LMS E	ve indexs
ADDRESS	ONZ Bluz	Hill Plaza
CITY	Pearl R	1/2/
TATE	NY	ZIP 10965

PROJECT	NYSDEC LAKA (650-272)
CONTACT	Maria Heinez
PHONE	914-735-8300
FAX	914-735-7466

P.O.#

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
1	FLMW-205A	1	Å	2-10-18/1750	Monitor well sample	CN-
	FLMW-205D)_	A	2-10-18 /1755	tt is /	Metals
	FLMW-205D	j_	A	A-10-18/1758	11 11	CN-
9801465	Trip Blank-1/2	3	A	2-16-48	Trip Bluk	VOCs
			_			
			,			
		A				
					0	
					<u> </u>	
					5	
			 		- Ch	
**M = MATRIX	A=AQUEOUS	S=S	OIL	G=SLUDGE	P=POTABLE WATER O=0	OIL F=FILTER K=SOLID X=OTHER

A-AGOL		- 4-010542 1-10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,, 1212(
NTAINERS	TURNAROU	ND:				(If B	llank, S	td. 3 weeks)
6 (circle one)	STD	REDUCED	FULL	NY-AS		LPI		CLP II
NQUISHED BY	·		VED BY:		ORGANIZATION	DATE	TIME	REASON
	SIGN	PRINT	SIG	iN				
when Shot	J. Eslix							
J 2-	10-98							
J	900	NAstonelli	Mark	well-	ALI	4/1/48	10:00	Anclysia
MING RESPON	ISIBILITY FOR	SAMPLING: PRINT:	Scott G.	Englist	SIGN:	Scot	(<u>)</u>	English
					ALI QUOT	E# -	53	2342
					ALI CASE#	4	, 9	8355
	ITAINERS (circle one) NQUISHED BY 2-	TURNAROU G (circle one) STD NQUISHED BY: SIGN JURNAROU ALT JURNAROU ALT ALT ALT ALT ALT ALT ALT AL	SIGN PRINT JEN SIGN PRINT JEN SIGN PRINT JEN SIGN PRINT JEN SIGN PRINT JEN SIGN PRINT JEN SIGN PRINT JEN SIGN PRINT JEN SIGN PRINT JEN SIGN PRINT	ITAINERS TURNAROUND: S (circle one) STD REDUCED FULL NQUISHED BY: RECEIVED BY: SIGN PRINT SIGN 2-10-98 1900 Material Muni	ITAINERS TURNAROUND: S (circle one) STD REDUCED FULL NY-AS NQUISHED BY: RECEIVED BY: SIGN PRINT SIGN 2-10-98 1900 Mahanelii Mundall	TAINERS TURNAROUND: S (circle one) STD REDUCED FULL NY-ASP ORGANIZATION SIGN PRINT SIGN ORGANIZATION ALT J-10-98 I 1900 MAHMELL' MING RESPONSIBILITY FOR SAMPLING: PRINT: SCHOOL ALT QUOT	ITAINERS TURNAROUND: (If B) G (circle one) STD REDUCED FULL NY-ASP CLP I NQUISHED BY: RECEIVED BY: ORGANIZATION DATE SIGN PRINT SIGN 1900 MAHMELLI' Mulbell ALT Wife 1900 MAHMELLI' Mulbell ALT Wife 1900 MAHMELLI' Mulbell ALT Wife 1900 MAHMELLI' Mulbell ALT Wife 1900 MAHMELLI' Mulbell ALT Wife 1900 MAHMELLI' Mulbell ALT Wife 1900 MAHMELLI' Mulbell ALT Wife 1900 MAHMELLI' Mulbell ALT Wife 1900 MAHMELLI' Mulbell ALT Wife 1900 MAHMELLI' MULBELL	ITAINERS TURNAROUND: (If Blank, S G (circle one) STD REDUCED FULL NY-ASP CLP I NQUISHED BY: RECEIVED BY: ORGANIZATION DATE TIME SIGN PRINT SIGN J-10-98 1900 Mathewall' Muthall ALT Migalo:00 MING RESPONSIBILITY FOR SAMPLING: PRINT: Soit G. English Sign: Math. A. ALI QUOTE# 53

ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FORM _

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

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PAGE	OF	

CLIENT	LMS ENGIS	102.5	-
ADDRESS	ONR Blue H	1:11	Plaza
CITY	Azarl River		
STATE	NY	ZIP	10965

PROJECT	N'SDEC LAKA (650-272)	1
CONTACT	Maria Heinez	_
PHONE	914 - 735 - 8300	1
FAX	914-735-7466	

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	N ANALYSIS	٦,
9801496	FLMW-206B	3	4	2-11-98 /0925	Monitor well son	nde VOCS	
	FLMW-200B		À	10930		Metals	
	FLMW-206B	<u>i</u>	A	10935	h u	CN-	\perp
9801497	MW-202	3	A	/1330	21 11	VOCS	
	MW-202	1	A	1337		Metals	_ -
	MW-202	1	A	/1335	11 11	CN-	
9801498	FLMW-202B	3	A	/1215	4 4	Vocs	_
	FLMW-202B	1	A	/1430	ll 11	Metals	_
	FLMW-202B	1	A	/1235	il n	CN-	_
9801499	FLMW-20418	3	A	1540	11 11	VOCs	
1	FLMW-204B)	A	1545	H H	Metals	_
	FLMW-204B	1	4	/1550	le it	CN	_
9801500	Trip Blank 3/4	J	A	'	Trip Blank	VOCs	
				A. **			_[
				TOSAN S	5 - San / A	·	
				<u> </u>	Dest.		_
**M = MATRIX	A=AQUEOUS	S=S	OIL	G=SLUDGE	P=POTABLE WATER (D=OIL F=FILTER K=SOLID X=OTHER	~l

**M = MATRIX	A=AQUE	OUS S=SOI	L G=SLUDGE F	P=POTABLE WATE	R O=OIL	F=FILTER	K=SO	LID X	(=OTHER
*C = NO. CONTA	AINERS	TURNAROU	ND:				(If B	llank, S	td. 3 weeks)
DELIVERABLES (d	circle one)	STD	REDUCED	FULL	NY-AS	SP) (CLPI		CLP II
RELINC	QUISHED BY:		RE	ECEIVED BY:		ORGANIZATION	DATE	TIME	REASON
PRINT		SIGN	PRINT	SIG	iN	0,10001211011	DAIL	11141	TIEMOON
Scott G. Eng	10 Holy	3. Rettos	let						
نسب	2-11	-98			11				
	17.	30	MAntonalli	Menter	ell.	ALI	2/12/4	9:30	Analsis
PERSON(S) ASSUMI	NG RESPON	SIBILITY FOR	SAMPLING: PRINT	Soot G.	Englis	SIGN:	Acel	XX	1. Englis
Pa	servation	of 40	nh voc v	rials NOT		ALI QUOT	E# 5	54	8342
		4	sed out w	-	witze	ALI CASE	#	. (08374
befo	-	tin San	de.			P.O.#			

ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FORM

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

1		1
PAGE	OF	

		-
LIENT	LMS ENZINEERS	
ADDRESS	ONE Blue Hill Plaza	
CITY	Pearl River	
TATE	NY ZIP 10965	

PROJECT	NYSDEC LAKA (650-272)
CONTACT	Maria Heinez
PHONE	914-735-8300
FAX	914-735-7466

CALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DI	ESCRIPTION	ANALYSIS
9801510	DOAKMW-2	-3	A	2-11-98/0900	Monitor 1	tell Samples	Voc
	DOAK MW-2	1	A	10905	41	11 /	Metals
	DOAK MW-2		A	10910	(1	į,	CN-
-9801511	DOAK MW-1	3	A	11220	lt .	11	Voc
	DOAK MW-1	1	A	11335	11	11	Metals
	DOAK MN-1	1	A	/1335	11	¢,	CN-
9801512 ⁶	FLMW-204	4 3	A	/1350	4	í,	VOC
	FLMW-204A	j	A	/1355	t i	11	Metals
	FLMW-204A	i	A	1/1400	- 1)	11	CN
9801513	FLMW-205B		A	/1550	h	ĮΙ	Voc
	FLMW-305B	ì	A	1555	ч	11	Metals
	FLMW-205B	}	A	11600	11	IJ	CN
-9801514		3	A	/1705	ij	Ц	Voc
	MW-203	1	A	17710	И	h	Metals
	MW-203	1	A	11715	. 11	- H	CN
9801515	Trip Blook 5/6	d	A	v /	Tripl	BlowK	Vocs
**M = MATRIX	•	S=S	OIL	G=SLUDGE	P=POTABLE		L F=FILTER K=SOLID X=OTHER

*C = NO. CONTAIN	IERS	TURNAROU	ND:				(If E	Blank, S	std. 3 weeks)
DELIVERABLES (circ	cle one)	STD	REDUCED	FULL	NY-A	SP) (CLPI		CLP II
RELINQU	ISHED BY	<i>'</i> :	RECEIV	/ED BY:		ORGANIZATION	DATE	TIME	REASON
PRINT		SIGN	PRINT	SIGI	V	ON WILL WORK	DAIL	11141	112,13011
Koot G. Englest	Act	D. Frede	#						
-	2-1-	2-95)	1 01		1 0				
	1800	<u> </u>	MAntone!	Meluli	mell.	ALI	2/13/98	9:45	Analysin
RSON(S) ASSUMING	RESPON	ISIBILITY FOR	SAMPLING: PRINT:	Sect 6. 2	Englers	sign;_	Gen	1.9	Englist
Prasi	rvation	of Voc	Vials Net re	quested.	itci	ALI QUOT	E# F	5_	8342
OMMENTS FINSE	d 604	with 50	ruple water be	Fore Son	ple	ALI CASE	y		08381
Collec					/	P.O.#			

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

	VOLATILE ORGANICS	ANALYSIS DATA	SHEET	
Lab Name: ACCREDITE	D LABS, INC.	Contract:		FLMW206A
Lab Code: 11109	Case No.: 8342	SAS No.:	SDG No.:	
Matrix: (soil/water) WATER	Lab Sa	ample ID: 9801	L435
Sample wt/vol:	5.0 (g/mL) ML	Lab Fi	lle ID: >C70	37
Level: (low/med)	LOW	Date I	Received: 02/1	10/98
% Moisture: not dec	•	Date A	Analyzed: 02/1	13/98
GC Column: RTX-502	ID: 0.53 (mm)	Diluti	on Factor:	1.0
Soil Extract Volume	:(uL)	Soil A	Aliquot Volume	e:(uL)
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/		Q
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 67-66-3 107-06-2 78-93-3 71-55-6 75-27-4 78-87-5 79-01-6 124-48-1 79-00-5 71-43-2 10061-02-6 75-25-2	Carbon Disulfi1,1-Dichloroet1,2-Dichloroet1,2-Dichloroet1,2-Dichloroet2-Butanone1,1-TrichlorCarbon TetrachBromodichlorom1,2-Dichloroprcis-1,3-DichloTrichloroethenDibromochlorom	de hene hane hene (total) hane oethane loride ethane opane ropropene ethane oethane loride ethane opane loropropene	10 10 10 10 10 10 10 10 10 10 10 10 10 1	

V-15

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591-78-6----2-Hexanone

108-90-7-----Chlorobenzene

1330-20-7-----Xylene (total)

100-41-4-----Ethylbenzene

108-88-3-----Toluene

100-42-5----Styrene

127-18-4----Tetrachloroethene

79-34-5----1,1,2,2-Tetrachloroethane

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ab Name: ACCREDITED LABS, INC. Contract:	FLMW206A
Lab Code: 11109	SDG No.:
trix: (soil/water) WATER Lab Sample	ID: 9801435
Sample wt/vol: 5.0 (g/mL) ML Lab File II): >C7037
evel: (low/med) LOW Date Receive	ved: 02/10/98
9 Moisture: not dec Date Analyz	zed: 02/13/98
♥C Column: RTX-502 ID: 0.53 (mm) Dilution Fa	actor: 1.0
coil Extract Volume:(uL) Soil Alique	ot Volume:(uL)
CONCENTRATION UNI Number TICs found: 0 (ug/L or ug/Kg) U	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	EST. CONC.
22. 23. 24. 25. 26.	
27. 28. 29. 30.	

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC.	Contract:DOAKMW-3
Lab Code: 11109 Case No.: 83	SAS No.: SDG No.:
Matrix: (soil/water) WATER	Lab Sample ID: 9801436
Sample wt/vol: 5.0 (g/mL)	ML Lab File ID: >C7038
Level: (low/med) LOW	Date Received: 02/10/98
% Moisture: not dec	Date Analyzed: 02/13/98
GC Column: RTX-502 ID: 0.53 (1	nm) Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q
74-87-3	10

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10

100-41-4----Ethylbenzene

100-42-5-----Styrene 1330-20-7------Xylene (total)

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DOAKMW-3

_ab Name: ACCREDITI	ED LABS, INC.	Contract:	
Lab Code: 11109	Case No.: 8342	SAS No.:	SDG No.:
atrix: (soil/water	c) WATER	Lab Sample	e ID: 9801436
Sample wt/vol:	5.0 (g/mL) ML	Lab File	ID: >C7038
evel: (low/med)	LOW	Date Rece	ived: 02/10/98
% Moisture: not dec	z	Date Analy	yzed: 02/13/98
Column: RTX-502	ID: 0.53 (mm)	Dilution 1	Factor: 1.0
Toil Extract Volume	e:(uL)	Soil Aliqu	not Volume:(uL)
Number TICs found:	; 0	CONCENTRATION UN (ug/L or ug/Kg)	
<i>'</i>	COMPOUND NA	ME RT	EST. CONC. Q
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19.			

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25._ 26._ 27._

28.__ 29.__ 30.__

Ich Names ACCREDIME	D I ADC THO	Contract	MW-201
Lab Name: ACCREDITE	D HADS, INC.	contract:	
Lab Code: 11109	Case No.: 8342	SAS No.: SDG N	o.:
Matrix: (soil/water) WATER	Lab Sample ID:	9801459
Sample wt/vol:	5.0 (g/mL) MI	Lab File ID:	>C7039
Level: (low/med)	LOW	Date Received:	02/11/98
<pre>% Moisture: not dec</pre>	•	Date Analyzed:	02/13/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	: 1.0
Soil Extract Volume	:(uL)	Soil Aliquot Vo	lume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-83-9 75-01-4 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 75-34-3 75-34-3 75-66-3 75-27-4 75-27-4 75-27-4 79-01-6	Carbon Disulf1,1-Dichloroe1,2-Dichloroe1,2-Dichloroe1,2-Dichloroe2-Butanone1,1,1-TrichloCarbon TetracBromodichloroe1,2-DichloroeTrichloroetheDibromochloroe1,1,2-TrichloBenzenetrans-1,3-DicBromoform4-Methyl-2-Pe2-HexanoneTetrachloroetheTetrachloroetheTetrachloroetheTetrachloroetheTetrachloroetheTetrachloroetheTetrachloroetheToluene	de	10

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW-201	

		MW-201
ab Name: ACCREDITED LABS, INC. Contract		
Lab Code: 11109	: SDG No	·.:
_atrix: (soil/water) WATER	Lab Sample ID: 9	9801459
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: >	C7039
mevel: (low/med) LOW	Date Received: ()2/11/98
% Moisture: not dec	Date Analyzed: 0)2/13/98
■C Column: RTX-502 ID: 0.53 (mm)	Dilution Factor:	1.0
Toil Extract Volume:(uL)	Soil Aliquot Vol	ume: (uL)
CONCE	NTRATION UNITS: or ug/Kg) UG/L	.une(ub)
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	RT EST.	CONC.
26. 27.		

Lab Name: ACCREDITE	D LABS, INC.	Contract:	FB-1
Lab Code: 11109	Case No.: 8342	SAS No.: SDG	No.:
Matrix: (soil/water)) WATER	Lab Sample ID:	9801460
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID:	>C7032
Level: (low/med)	LOW	Date Received:	02/11/98
% Moisture: not dec.	•	Date Analyzed:	02/13/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume:	:(uL)	Soil Aliquot V	olume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-83-9 75-01-4 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 75-34-3 76-66-3 78-93-3 71-55-6 75-27-4 78-87-5 79-01-6	Carbon Disulfid1,1-Dichloroeth1,2-Dichloroeth1,2-Dichloroeth1,2-Dichloroeth2-Butanone1,1,1-TrichloroCarbon TetrachlBromodichlorome1,2-Dichloroprocis-1,3-DichlorTrichloroetheneDibromochlorome1,1,2-TrichloroBenzenetrans-1,3-DichlBromoform4-Methyl-2-Pent2-HexanoneTetrachloroethe1,1,2,2-TetrachTolueneChlorobenzeneEthylbenzene	de dene dene dene (total) dene dene dene dene de de dene de dene de de dene de dene de de dene de de dene de de de de de de de de de de de de de	10

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FB-1

_ab Name: ACCREDITED LAB	S, INC.	Contract:	
Lab Code: 11109 Case	No.: 8342	SAS No.: SDG N	o. :
■atrix: (soil/water) WAT	ER	Lab Sample ID:	9801460
<pre>cample wt/vol: 5.0</pre>	(g/mL) ML	Lab File ID:	>C7032
₩evel: (low/med) LOW		Date Received:	02/11/98
^ Moisture: not dec		Date Analyzed:	02/13/98
GC Column: RTX-502 ID:	0.53 (mm)	Dilution Factor	: 1.0
oil Extract Volume:	(uL)	Soil Aliquot Vo	lume:(uL)
Number TICs found:	1	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1120214	Undecane (8CI9CI)	31.11	8	N
4.				
5. 6.				
8. 9.				
10.				
13.				
14 15 16				
17.				
19. 20.				
21.				
25.				
26. 27.				
28. 29. 30.				

EPA SAMPLE NO.

VOLATILE ORGANICS ANALY:	SIS DATA SHEET
LABS, INC. Contrac	FB-2
	Lab Sample ID: 9801461
	_
5.0 (g/mL) ML	Lab File ID: >C7048
LOW	Date Received: 02/11/98
	Date Analyzed: 02/17/98
ID: 0.53 (mm)	Dilution Factor: 1.0
(uL)	Soil Aliquot Volume:(uL)
	CENTRATION UNITS: /L or ug/Kg) UG/L Q
ChloromethaneBromomethaneVinyl ChlorideChloroethaneMethylene ChlorideAcetoneCarbon Disulfide1,1-Dichloroethane1,2-Dichloroethane1,2-Dichloroethane1,1-Trichloroethane2-Butanone1,1,1-TrichloroethaneCarbon TetrachlorideBromodichloromethane1,2-DichloropropaneCis-1,3-DichloropropaneCis-1,3-DichloropropaneTichloroethane1,1,2-Trichloroethane1,1,2-Trichloroethane1,1,2-TrichloroethaneTolueneTetrachloroetheneTolueneTolueneChlorobenzene	e 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10
	LABS, INC. Contractors of the co

1E VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

			TEN	PATIVELY 1	IDENTIFIED	COMPOUNDS	
							FB-2
_ab Na	ame:	ACCREDITED	LABS,	INC.	Contract	1	

-		•			•		I
Lab Code:	11109	Case No	.: 8342	SAS N	o.:	SDG	No.:
atrix: (se	oil/water)	WATER			Lab	Sample ID:	9801461
sample wt/	vol:	5.0	(g/mL) M	ıL	Lab	File ID:	>C7048
wevel: (low/med)	LOW			Date	e Received:	02/11/98

° Moisture: not dec. ____ Date Analyzed: 02/17/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

oil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Lab Name: ACCREDITE	D LABS, INC.		W205A
Lab Code: 11109	Case No.: 8342	SAS No.: SDG No.:	
Matrix: (soil/water) WATER	Lab Sample ID: 9801462	2
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID: >C7042	
Level: (low/med)	LOW	Date Received: 02/11/9	8
% Moisture: not dec	•	Date Analyzed: 02/13/9	8
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor: 1.	0
Soil Extract Volume	:(uL)	Soil Aliquot Volume: _	(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-83-9 75-01-4 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 1061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 108-88-3 108-90-7 100-41-4 100-42-5	Carbon Disulfice1,1-Dichloroethe1,2-Dichloroethe2-Butanone1,1-Trichloroethe	10	U U U U U U U U U U U U U U U U U U U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

			FLMW205A
L b Name: ACCREDITED	LABS, INC. Con	ntract:	
Lab Code: 11109	Case No.: 8342 S	AS No.: SDG No	·.:
trix: (soil/water)	WATER	Lab Sample ID: 9	801462
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID: >	C7042
wel: (low/med)	LOW	Date Received: 0	02/11/98
% Moisture: not dec.		Date Analyzed: 0	2/13/98
Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Sail Extract Volume:	(uL)	Soil Aliquot Vol	.ume:(uL)
Number TICs found:	0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
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12.				***************************************
# 13.				
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27.				
- 20.				
23.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ACCREDITED LABS	, INC.	Contract:		F.	TWM502D	
Lab Code: 11109 Case	No.: 8342	SAS No.:	SDG N	0.:		
Matrix: (soil/water) WATE	R	Lab S	ample ID:	98014	63	,
Sample wt/vol: 5.0	(g/mL) ML	Lab F	ile ID:	>C704	3	
Level: (low/med) LOW		Date 1	Received:	02/11	/98	,
% Moisture: not dec	***************************************	Date .	Analyzed:	02/13	/98	
GC Column: RTX-502 ID:	0.53 (mm)	Dilut	ion Factor	:	1.0	•
Soil Extract Volume:	(uL)	Soil .	Aliquot Vo	lume:	(uL)
CAS NO. CO	MPOUND	CONCENTRATION (ug/L or ug			Q	•
74-87-3	omomethane nyl Chloride loroethane thylene Chlo etone rbon Disulfi 1-Dichloroet 2-Dichloroet loroform 2-Dichloroet comodichlor	chene chane coethane		10 10 10 10 10 10 10 10 10 10 10 10 10 1		

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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FLMW205D

ab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109 Case No.: 8342	
	Lab Sample ID: 9801463
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: >C7043
evel: (low/med) LOW	Date Received: 02/11/98
% Moisture: not dec	Date Analyzed: 02/13/98
C Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Goil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
Number TICs found: 0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q ====
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J •				
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0.				***************************************
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16.				
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22.		.		
23.				
24.				
25. 26.	- <u>Martiness </u>	_ ·		
27.				
28.	-			***************************************
29. ———	-			
30				

VOLATILE ORGANICS ANALYSIS DATA SHEET

				TB-1/2
Lab Name: ACCREDITE	D LABS, INC.	Contract:		4444
Lab Code: 11109	Case No.: 8342	SAS No.:	SDG No	.:
Matrix: (soil/water) WATER	Lab Sa	ample ID: 9	801465
Sample wt/vol:	5.0 (g/mL) ML	Lab F	ile ID: >	·C7034
Level: (low/med)	LOW	Date I	Received: 0	2/11/98
% Moisture: not dec	•	Date 1	Analyzed: 0	2/13/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilut	ion Factor:	1.0
Soil Extract Volume	:(uL)	Soil A	Aliquot Vol	ume:(uL)
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/		Q
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 1043-2 1061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 79-34-5 108-88-3 108-90-7 100-41-4 100-42-5	Carbon Disulfi1,1-Dichloroet1,2-Dichloroet1,2-DichloroetChloroform1,2-Dichloroet2-Butanone1,1,1-TrichlorCarbon TetrachBromodichlorom1,2-Dichloroprcis-1,3-DichloroetherDibromochlorom1,1,2-TrichlorBenzenetrans-1,3-DichBromoform4-Methyl-2-Per2-HexanoneTetrachloroeth1,1,2,2-TetrachloroetherTolueneChlorobenzeneEthylbenzene	cride de chene chane chene (total) chane coethane coethane copane copropene methane coethane coethane coethane coethane coethane coethane coethane		10

1E VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	C	MID	TT	MO
r.PA	- O /	AMP	Life	NO.

	TENT	FATIVELY	IDENTIFIED	COMPOUNDS	
					TB-1/2
ED	LABS,	INC.	Contract:		

Lab Name: ACCREDITED	LABS, INC.	Contract:
Lab Code: 11109		
_Matrix: (soil/water)	WATER	Lab Sample ID: 9801465
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID: >C7034
Level: (low/med)	LOW	Date Received: 02/11/98
% Moisture: not dec.	***************************************	Date Analyzed: 02/13/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL)
Number TICs found:	O	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLMW206B	
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Lab Name: ACCREDITED	LABS, INC.	Contract:	
Lab Code: 11109	Case No.: 8342	SAS No.: SDG No	·:
Matrix: (soil/water)	WATER	Lab Sample ID: 9	801496
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID: >	C7051
Level: (low/med)	LOW	Date Received: 0	02/12/98
% Moisture: not dec.		Date Analyzed: 0	02/17/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

74-87-3Chloromethane	10 U
74-83-9Bromomethane	10 -
75-01-4Vinyl Chloride	10
75-00-3Chloroethane	10 U
75-09-2Methylene Chloride	$2\overline{J}\overline{B}$
67-64-1Acetone	10 0
75-15-0Carbon Disulfide	10 0
75-35-41,1-Dichloroethene	18
75-34-31,1-Dichloroethane	28
540-59-01,2-Dichloroethene (total)	23
67-66-3Chloroform	1 J
107-06-21,2-Dichloroethane	10 - 0
78-93-32-Butanone	10 U
71-55-61,1,1-Trichloroethane	49
56-23-5Carbon Tetrachloride	10 U
75-27-4Bromodichloromethane	10 U
78-87-51,2-Dichloropropane	10 U
10061-01-5cis-1,3-Dichloropropene	10 U
79-01-6Trichloroethene	34
124-48-1Dibromochloromethane	10 U
79-00-51,1,2-Trichloroethane	10 U
71-43-2Benzene	10 \ U
10061-02-6trans-1,3-Dichloropropene	10 0
75-25-2Bromoform	10 U
108-10-14-Methyl-2-Pentanone	10 0
591-78-62-Hexanone	10
127-18-4Tetrachloroethene	47
79-34-51,1,2,2-Tetrachloroethane	10 0
108-88-3Toluene	2 J
108-90-7Chlorobenzene	10
100-41-4Ethylbenzene	10
100-42-5Styrene	10
1330-20-7Xylene (total)	10

EPA SAMPLE NO.

			I EN.	INIIAEDI	IDENTIFIED COMPOUNDS	FLMW206B
_Lab l	Name:	ACCREDITED	LABS,	INC.	Contract:	

Lab Code: 11109	Case No.: 8342	SAS No.: SDG No.:
_Matrix: (soil/water)	WATER	Lab Sample ID: 9801496
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID: >C7051
Level: (low/med)	LOW	Date Received: 02/12/98
% Moisture: not dec.	***************************************	Date Analyzed: 02/17/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL)
Number TICs found:	0	CONCENTRATION UNITS:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

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Lab Name: ACCREDITED LABS, INC.	Contract: MW-202
Lab Code: 11109 Case No.: 8342	SAS No.: SDG No.:
Matrix: (soil/water) WATER	Lab Sample ID: 9801497
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: >C7052
Level: (low/med) LOW	Date Received: 02/12/98
% Moisture: not dec	Date Analyzed: 02/17/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

	(-3,3,		~
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	<u>u</u>
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	ŭ
	Methylene Chloride	1	JB
67-64-1	Acetone	10	-"u"-
75-15-0	Carbon Disulfide	10	
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1.1-Dichloroethane	55	
540-59-0	1,2-Dichloroethene (total)_	8	J
67-66-3	Chloroform	10	-" U
	1,2-Dichloroethane	10	U
	2-Butanone	10	
71-55-6	1,1,1-Trichloroethane	49	
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	
79-01-6 -	Trichloroethene	4	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
	Benzene	10	
	trans-1,3-Dichloropropene	10	UU
	Bromoform	10	UU
	4-Methyl-2-Pentanone	10	U
	2-Hexanone	10	U
	Tetrachloroethene_	14	
	1,1,2,2-Tetrachloroethane	10	U
108-88-3		10	U
	Chlorobenzene	10	U
	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

V-33

EPA SAMPLE NO.

Lab Name: ACCREDITED	LABS, INC.	Contract:	MW-202
Lab Code: 11109	Case No.: 8342	SAS No.: SDG No).:
Matrix: (soil/water)	WATER	Lab Sample ID: 9	801497
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID: >	•C7052
Level: (low/med)	LOW	Date Received: 0	2/12/98
% Moisture: not dec.		Date Analyzed: 0	2/17/98
■GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
Number TICs found:	0	CONCENTRATION UNITS:	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE	NO
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	FLMW202B
Lab Name: ACCREDITED LABS, INC. Contr	
Lab Code: 11109 Case No.: 8342 SAS	No.: SDG No.:
Matrix: (soil/water) WATER	Lab Sample ID: 9801498
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: >C7053
Level: (low/med) LOW	Date Received: 02/12/98
% Moisture: not dec	Date Analyzed: 02/17/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
	ONCENTRATION UNITS:
74-87-3Chloromethane 74-83-9Bromomethane 75-01-4Vinyl Chloride	10 U 10 U 10 U

74-87-3Chloromethane	10 U
74-83-9Bromomethane	10 T
75-01-4Vinyl Chloride	10 0
75-00-3Chloroethane	10 0
75-09-2Methylene Chloride	1 J B
67-64-1Acetone	10 0
75-15-0Carbon Disulfide	10 0
75-35-41,1-Dichloroethene	10 U
75-34-31,1-Dichloroethane	10 U
540-59-01,2-Dichloroethene (total)	2 J
67-66-3Chloroform	10 0
107-06-21,2-Dichloroethane	10 0
78-93-32-Butanone	10 0
71-55-61,1,1-Trichloroethane	3 J
56-23-5Carbon Tetrachloride	10 U
75-27-4Bromodichloromethane	10 \
78-87-51,2-Dichloropropane 10061-01-5cis-1,3-Dichloropropene	10
10061-01-5cis-1,3-Dichloropropene	10 U
79-01-6Trichloroethene	19
124-48-1Dibromochloromethane	10 U
79-00-51,1,2-Trichloroethane	10 U
71-43-2Benzene	10
10061-02-6trans-1,3-Dichloropropene	10 0
75-25-2Bromoform	10 <u>U</u>
108-10-14-Methyl-2-Pentanone	10
591-78-62-Hexanone	10
127-18-4Tetrachloroethene	38
79-34-51,1,2,2-Tetrachloroethane	10 <u>U</u>
108-88-3Toluene	2 J
108-90-7Chlorobenzene	10 <u>U</u>
100-41-4Ethylbenzene	10 U
100-42-5Styrene	10 <u>U</u>
1330-20-7Xylene (total)	10 <u> U </u>

EPA SAMPLE NO.

_ab Name: ACCREDITED LABS, INC. Contract:	FLMW202B
Lab Code: 11109	No.:
Matrix: (soil/water) WATER Lab Sample ID:	
Sample wt/vol: 5.0 (g/mL) ML Lab File ID:	>C7053
■Level: (low/med) LOW Date Received:	02/12/98
% Moisture: not dec Date Analyzed:	02/17/98
GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor	: 1.0
Soil Extract Volume:(uL) Soil Aliquot Vo	olume:(uL)
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
CAS NUMBER COMPOUND NAME RT EST 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 11. 12. 13. 14. 15. 16. 15. 16.	CONC. Q
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

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Lab	Name:	ACCREDITE	LABS, INC.	Contract: _		FLMW204B	
Lab	Code:	11109	Case No.: 8342	SAS No.:	SDG No) .:	

Matrix: (soil/water) WATER Lab Sample ID: 9801499

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >C7054

Level: (low/med) LOW Date Received: 02/12/98

% Moisture: not dec.____ Date Analyzed: 02/17/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

**** **********************************	
74-87-3Chloromethane	10 U
74-83-9Bromomethane	10 U
75-01-4Vinyl Chloride	10 U
75-00-3Chloroethane	10 0
75-09-2Methylene Chloride	1 J B
67-64-1Acetone	10 0
75-15-0Carbon Disulfide	10 0
75-35-41,1-Dichloroethene	
75-34-31,1-Dichloroethane	10 0
540-59-01,2-Dichloroethene (total)	6 J
67-66-3Chloroform	10 0
107-06-21,2-Dichloroethane	10 0
78-93-32-Butanone	10 U
71-55-61,1,1-Trichloroethane	5 J J
56-23-5Carbon Tetrachloride	10 - 0
75-27-4Bromodichloromethane	10
78-87-51,2-Dichloropropane	10 U
10061-01-5cis-1,3-Dichloropropene	10 U
79-01-6Trichloroethene	35 -
124-48-1Dibromochloromethane	10 U
79-00-51,1,2-Trichloroethane	10 T
71-43-2Benzene	10 0
10061-02-6trans-1,3-Dichloropropene	10 U
75-25-2Bromoform	10 U
108-10-14-Methyl-2-Pentanone	10 0
591-78-62-Hexanone	10 0
127-18-4Tetrachloroethene	33 -
79-34-51,1,2,2-Tetrachloroethane	10 0
108-88-3Toluene	10 0
108-90-7Chlorobenzene	10 0
100-41-4Ethylbenzene	10 0
100-42-5Styrene	10 0
1330-20-7Xylene (total)	10 U
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EPA SAMPLE NO.

FLMW204B

Lab Name: ACCREDITED LABS,	INC. Contract	* • •	
Lab Code: 11109 Case N	o.: 8342 SAS No.	sDG No	o.:
■Matrix: (soil/water) WATER		Lab Sample ID: 9	9801499
Sample wt/vol: 5.0	(g/mL) ML	Lab File ID:	>C7054
Level: (low/med) LOW		Date Received: (02/12/98
% Moisture: not dec		Date Analyzed: (02/17/98
GC Column: RTX-502 ID: 0	.53 (mm)	Dilution Factor:	: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	lume:(uL)
Number TICs found: 1		ENTRATION UNITS: L or ug/Kg) UG/L	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab	Name:	ACCREDITED	LABS,	INC.	Contract:		
Lab	Code:	11109	Case No	3: 8342	SAS No.:	SDG	No.:

Matrix: (soil/water) WATER Lab Sample ID: 9801500

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >C7049

Level: (low/med) LOW Date Received: 02/12/98

% Moisture: not dec. Date Analyzed: 02/17/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3Chloromethane	10U
74-83-9Bromomethane	10 T
75-01-4Vinyl Chloride	10 U
75-00-3Chloroethane	10 0
75-09-2Methylene Chloride	5 J B
67-64-1Acetone	10 0
75-15-0Carbon Disulfide	10 U
75-35-41,1-Dichloroethene	10 U
75-34-31,1-Dichloroethane	10 U
540-59-01,2-Dichloroethene (total)	10 U
67-66-3Chloroform	10 U
107-06-21,2-Dichloroethane	10 U
78-93-32-Butanone	10 U
71-55-61,1,1-Trichloroethane	10 U
56-23-5Carbon Tetrachloride	10 0
75-27-4Bromodichloromethane	10 0
78-87-51,2-Dichloropropane	10 T
10061-01-5cis-1,3-Dichloropropene	10
79-01-6Trichloroethene	10 U
124-48-1Dibromochloromethane	10 U
79-00-51,1,2-Trichloroethane	10 0
71-43-2Benzene	10 U
10061-02-6trans-1,3-Dichloropropene	10 0
75-25-2Bromoform	10 0
108-10-14-Methyl-2-Pentanone	10 U
591-78-62-Hexanone	10 0
127-18-4Tetrachloroethene	10 0
79-34-51,1,2,2-Tetrachloroethane	10 U
108-88-3Toluene	10 U
108-90-7Chlorobenzene	10 0
100-41-4Ethylbenzene	10 <u>U</u>
100-42-5Styrene	10
1330-20-7Xylene (total)	10 U

EPA SAMPLE NO.

	TB 3/4
Lab Name: ACCREDITED LABS, INC. Cor	ntract:
Lab Code: 11109	AS No.: SDG No.:
■Matrix: (soil/water) WATER	Lab Sample ID: 9801500
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: >C7049
Level: (low/med) LOW	Date Received: 02/12/98
% Moisture: not dec.	Date Analyzed: 02/17/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC.	Contract:DOAKMW-2
Lab Code: 11109 Case No.: 8342	SAS No.: SDG No.:
Matrix: (soil/water) WATER	Lab Sample ID: 9801510
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: >C7055
Level: (low/med) LOW	Date Received: 02/13/98
% Moisture: not dec	Date Analyzed: 02/17/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

cho no.	(ug/E	or ag/kg/ og/h	¥
74-87-3	Chloromethane_		10 U_
74-83-9	Bromomethane		10 0
75-01-4	Vinyl Chloride		10 U
75-00-3	Chloroethane		10 U
75-09-2	Methylene Chloride		2 J B
67-64-1	Acetone		10 0
75-15-0	Carbon Disulfide		10 0
75-35-4	1,1-Dichloroethene		4 J
75-34-3	1,1-Dichloroethane		8 J
540-59-0	1,2-Dichloroethene (to	tal)	1 J
67-66-3	Chloroform	, — I	10 0
107-06-2	1,2-Dichloroethane	A	10 -0
78-93-3	2-Butanone		10 U
71-55-6	1,1,1-Trichloroethane		43
56-23-5	Carbon Tetrachloride		10 U
75-27-4	Bromodichloromethane		10 0
78-87-5	1,2-Dichloropropane		10 U
10061-01-5	cis-1,3-Dichloropropen	e	10 U
79-01-6	Trichloroethene		4 J
	Dibromochloromethane		10 T
	1,1,2-Trichloroethane		10 U
71-43-2			10 0
	trans-1,3-Dichloroprop	ene	10 U
	Bromoform		10 0
	4-Methyl-2-Pentanone		10 TU
591-78-6	2-Hexanone		10 0
127-18-4	Tetrachloroethene		15
79-34-5	1,1,2,2-Tetrachloroeth	ane	10 U
108-88-3			2 3
108-90-7	Chlorobenzene		10 0
100-41-4	Ethylbenzene		10 U
100-42-5	Styrene		10 TUT
	Xylene (total)		10 0
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EPA SAMPLE NO.

DOAKMW-2

Lab Name: ACCREDITED LABS, INC. Contra	act:	DOARM - 2
Lab Code: 11109	No.: SDG No.:	:
Matrix: (soil/water) WATER	Lab Sample ID: 980	01510
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: >C7	70 5 5
Level: (low/med) LOW	Date Received: 02/	13/98
% Moisture: not dec	Date Analyzed: 02/	17/98
■GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1	1.0
Soil Extract Volume:(uL)	Soil Aliquot Volum	ne:(uL)
	NCENTRATION UNITS: g/L or ug/Kg) UG/L	
CAS NUMBER COMPOUND NAME	RT EST. C	CONC. Q
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

	VOLATILE ORGANICS	ANALYSIS DATA SHEET	1
Lab Name: ACCREDITE	D LABS, INC. C	ontract:	DOAKMW-1
Lab Code: 11109	Case No.: 8342	SAS No.: SDG N	0.:
Matrix: (soil/water) WATER	Lab Sample ID:	9801511
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID:	>C7056
Level: (low/med)	LOW	Date Received:	02/13/98
% Moisture: not dec	• Newson Address and Address a	Date Analyzed:	02/17/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	: 1.0
Soil Extract Volume	:(uL)	Soil Aliquot Vo	lume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3	ChloromethaneBromomethaneVinyl ChlorideChloroethaneMethylene ChlorAcetoneCarbon Disulfide1,1-Dichloroethe	idee eneane	10 U U 10 10 U 10 U 10 U 10 U 10 U 10 U

	75-00-3Chloroethane	10		
	75-09-2Methylene Chloride	1	JB	
١	67-64-1Acetone	10		
ļ	75-15-0Carbon Disulfide	10	U	
1	75-35-41,1-Dichloroethene	8	J -	
	75-34-31,1-Dichloroethane	6	J	
1	540-59-01,2-Dichloroethene (total)	7	_J	
	67-66-3Chloroform	10	<u> </u>	
ı	107-06-21,2-Dichloroethane	10		
	78-93-32-Butanone	10	U	
ļ	71-55-61,1,1-Trichloroethane	53		
	56-23-5Carbon Tetrachloride	10	Ū	
	75-27-4Bromodichloromethane	10		
١	78-87-51,2-Dichloropropane	10	U	
	10061-01-5cis-1,3-Dichloropropene	10		
ł	79-01-6Trichloroethene_	6	J	
1	124-48-1Dibromochloromethane	10	Ū	
	79-00-51,1,2-Trichloroethane	10	UU	
١	71-43-2Benzene	10	U	
	10061-02-6trans-1,3-Dichloropropene_	10	UU	
Ì	75-25-2Bromoform	10	UU	
	108-10-14-Methyl-2-Pentanone	10	UU	
ı	591-78-62-Hexanone	10	บ	
١	127-18-4Tetrachloroethene	56		
	79-34-51,1,2,2-Tetrachloroethane	10	UU	
	108-88-3Toluene	8	_J	
	108-90-7Chlorobenzene	10	UU	
	100-41-4Ethylbenzene	10	U	
	100-42-5Styrene	10	U	
	1330-20-7Xylene (total)	2	_J	

V-43

EPA SAMPLE NO.

_Lab Name: ACCREDITED LABS, INC. Contract:	DOAKMW-1
Lab Code: 11109	
	 ample ID: 9801511
	ile ID: >C7056
	Received: 02/13/98
	Analyzed: 02/17/98
GC Column: RTX-502 ID: 0.53 (mm) Dilut:	ion Factor: 1.0
Soil Extract Volume:(uL) Soil A	Aliquot Volume:(uL)
Number TICs found: 1 CONCENTRATION (ug/L or ug/L)	
CAS NUMBER COMPOUND NAME RT	EST. CONC. Q
1. Unknown Hydrocarbon 9. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 16.	7 N
17. 18. 19. 20. 21. 22. 23. 24. 25. 26.	
27.	

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EPA SAMPLE NO.

	LATILE ORGANICS AN	Dilli	
Lab Name: ACCREDITED LA	ABS, INC. Con	tract:	FLMW204A
Lab Code: 11109 Cas	50 No • 9342 SA	S No · SDC N	•
Lab Code: 11109 Cas	se NO 6342 BA	3 NO.: 3DG N	0.:
Matrix: (soil/water) WA	ATER	Lab Sample ID:	9801512
Sample wt/vol: 5.0	0 (g/mL) ML	Lab File ID:	>C7057
Level: (low/med) LOW	W	Date Received:	02/13/98
% Moisture: not dec	***	Date Analyzed:	02/17/98
GC Column: RTX-502 II	D: 0.53 (mm)	Dilution Factor	: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	lume:(uL)
CAS NO.		CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-83-9 75-01-4 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-01-6 124-48-1 124-48-1 124-48-1 79-00-5 124-48-1 127-18-4	-Vinyl Chloride -Chloroethane -Methylene Chlorid -Acetone -Carbon Disulfide -1,1-Dichloroethen -1,1-Dichloroethen -1,2-Dichloroethen -Chloroform -1,2-Dichloroethan -2-Butanone -1,1,1-Trichloroet -Carbon Tetrachlor -Bromodichlorometh -1,2-Dichloropropa -cis-1,3-Dichlorop -Trichloroethene -Dibromochlorometh -1,1,2-Trichloroet -Benzene -trans-1,3-Dichlor -Bromoform -4-Methyl-2-Pentan -2-Hexanone -Tetrachloroethene -1,1,2,2-Tetrachlo -Toluene -Chlorobenzene -Ethylbenzene -Styrene	eeeetotal)ehanenenenenenanehaneopropeneone	10

V-45

EPA SAMPLE NO.

			TET MUTO OA 3
ab Name: ACCREDIT	ED LABS, INC.	Contract:	FLMW204A
Lab Code: 11109	Case No.: 8342	SAS No.:	SDG No.:
■Matrix: (soil/wate	r) WATER	Lab Sample	E ID: 9801512
Sample wt/vol:	5.0 (g/mL) ML	Lab File 1	D: >C7057
Level: (low/med)	LOW	Date Recei	lved: 02/13/98
% Moisture: not dec	c.	Date Analy	zed: 02/17/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution I	Factor: 1.0
Soil Extract Volume			not Volume:(uL)
Number TICs found:	: 0	CONCENTRATION UN (ug/L or ug/Kg)	
	,,,	<u> </u>	-
CAS NUMBER	COMPOUND NAI		EST. CONC. Q
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EPA SAMPLE NO.

	VOLATILE ORGANICS	ANALYSIS DATA SHE	TET TE	
			FI	MW205B
Lab Name: ACCREDITE	D LABS, INC.	Contract:		
Lab Code: 11109	Case No.: 8342	SAS No.:	SDG No.:	
Matrix: (soil/water) WATER	Lab Sample	e ID: 980151	.3
Sample wt/vol:	5.0 (g/mL) ML	Lab File 1	ID: >C7058	
Level: (low/med)	LOW	Date Recei	ived: 02/13/	98
% Moisture: not dec	•	Date Analy	zed: 02/17/	98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution F	Pactor: 1	.0
Soil Extract Volume	:(uL)	Soil Aliqu	ot Volume:	(uL)
CAS NO.	COMPOUND	CONCENTRATION UN (ug/L or ug/Kg)		Q
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1	ChloromethaneBromomethaneVinyl ChlorideChloroethaneMethylene ChloromethaneCarbon Disulfic1,1-Dichloroethene1,2-Dichloroethene2-Butanone1,1-Trichloromethene1,2-Dichloromethene1,2-Dichloromethene1,2-Dichloromethene1,2-Trichloromethene	ride de_ hene_ hane_ hene (total)_ hane oethane loride ethane opane_ ropropene ethane	10 10 21 13 32	U U U U U U U U U U U U U U U U U U U

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71-43-2----Benzene

108-88-3-----Toluene

100-42-5----Styrene

75-25-2----Bromoform

591-78-6----2-Hexanone

108-90-7-----Chlorobenzene 100-41-4----Ethylbenzene

1330-20-7-----Xylene (total)_

10061-02-6----trans-1,3-Dichloropropene

79-34-5----1,1,2,2-Tetrachloroethane

108-10-1----4-Methyl-2-Pentanone

127-18-4----Tetrachloroethene

EPA SAMPLE NO.

ab Name: ACCREDIT	TED LABS, INC.	Contract:	FLM	W205B
Lab Code: 11109	Case No.: 8342	SAS No.:	SDG No.:	
watrix: (soil/wate	er) WATER	Lab Sampl	e ID: 9801513	
Sample wt/vol:	5.0 (g/mL) ML	Lab File	ID: >C7058	
Level: (low/med)	LOW	Date Rece	ived: 02/13/98	
3 Moisture: not de	ec	Date Anal	yzed: 02/17/98	
GC Column: RTX-502	ID: 0.53 (mm)	Dilution	Factor: 1.0	
oil Extract Volum	ne:(uL)	Soil Aliq	uot Volume:	(uL)
Number TICs found	1: 1	CONCENTRATION U (ug/L or ug/Kg)		
CAS NUMBER	COMPOUND NA	ME RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.	Unknown Hydrocarbon		5	N

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

א רוים	SAMPLE	NT/
r.PA	SAMPLIC	14()

•	OLINIAL ORGANIZOR		
Lab Name: ACCREDITED	LABS, INC. Co	ontract:	MW-203
Lab Code: 11109 C	Case No.: 8342	SAS No.: SDG No	• •
Matrix: (soil/water)	WATER	Lab Sample ID: 9	801514
Sample wt/vol: 5	6.0 (g/mL) ML	Lab File ID: >	C7059
Level: (low/med) L	WO	Date Received: 0	2/13/98
% Moisture: not dec	William Control of the Control of th	Date Analyzed: 0	2/17/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
İ			_

74-87-3Chloromethane	10 U
74-83-9Bromomethane	10 U
75-01-4Vinyl Chloride	10 U
75-00-3Chloroethane	10 0
75-09-2Methylene Chloride	2 J B
67-64-1Acetone	10 0
75-15-0Carbon Disulfide	10 0
75-35-41,1-Dichloroethene	10 U
75-34-31,1-Dichloroethane	8 J
540-59-01,2-Dichloroethene (total)	66
67-66-3Chloroform	10 0
107-06-21,2-Dichloroethane	10
78-93-32-Butanone	10
71-55-61,1,1-Trichloroethane	21
56-23-5Carbon Tetrachloride	10 0
75-27-4Bromodichloromethane	10 -
78-87-51,2-Dichloropropane	10 -
10061-01-5cis-1,3-Dichloropropene	10 - 0
79-01-6Trichloroethene	14
124-48-1Dibromochloromethane	10 U
79-00-51,1,2-Trichloroethane	10 -0
71-43-2Benzene	10
10061-02-6trans-1,3-Dichloropropene	10 -
75-25-2Bromoform	10 -0
108-10-14-Methyl-2-Pentanone	10
591-78-62-Hexanone	10
127-18-4Tetrachloroethene	11
79-34-51,1,2,2-Tetrachloroethane	10 0
108-88-3Toluene	12
108-90-7Chlorobenzene	10 U
100-41-4Ethylbenzene	10
100-41-4	10 -0-
1330-20-7Xylene (total)	10 -0-
1330 20 / Ayrene (cocar)	10
	l ()

V-49

EPA SAMPLE NO.

MW-203

wab Name: ACCREDITED LABS, INC. Contract	:
Tab Code: 11109 Case No.: 8342 SAS No.	: SDG No.:
■atrix: (soil/water) WATER	Lab Sample ID: 9801514
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: >C7059
Level: (low/med) LOW	Date Received: 02/13/98
; Moisture: not dec	Date Analyzed: 02/17/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CONCE	NTRATION UNITS: or ug/Kg) UG/L
CAS NUMBER COMPOUND NAME 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	RT EST. CONC. Q
26. 27. 28. 29.	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

O

Lab	Name:	ACCREDITE	LABS, INC.	Contract:		TB 5/6
Lab	Code:	11109	Case No.: 8342	SAS No.:	SDG N	o.:

Lab Sample ID: 9801515 Matrix: (soil/water) WATER

Lab File ID: Sample wt/vol: 5.0 (g/mL) ML >C7050

Date Received: 02/13/98 Level: (low/med) LOW

Date Analyzed: 02/17/98 % Moisture: not dec.

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor:

COMPOUND

CAS NO.

Soil Aliquot Volume: (uL) Soil Extract Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L 10 U 74-87-3-----Chloromethane 74-83-9----Bromomethane 10 Ū 75-01-4-----Vinyl Chloride Ū 10 75-00-3-----Chloroethane ับ 10 J B 75-09-2----Methylene Chloride Ū 67-64-1-----Acetone 10 75-15-0-----Carbon Disulfide 10 Ū 75-35-4----1,1-Dichloroethene 10 Ū 75-34-3----1,1-Dichloroethane Ū 10 540-59-0----1,2-Dichloroethene (total) 10 Ū 67-66-3-----Chloroform ΊJ 10 107-06-2----1,2-Dichloroethane Ū 10 78-93-3----2-Butanone ับ 10 71-55-6----1,1,1-Trichloroethane 10 Ū 56-23-5-----Carbon Tetrachloride IJ 10 75-27-4----Bromodichloromethane 10 U 78-87-5----1,2-Dichloropropane 10 Ū 10061-01-5----cis-1,3-Dichloropropene 10 Ū 79-01-6----Trichloroethene Ū 10 124-48-1-----Dibromochloromethane Ū 10 79-00-5----1,1,2-Trichloroethane ับ 10 71-43-2----Benzene Ū 10 10061-02-6----trans-1,3-Dichloropropene 10 Ū Ū 75-25-2----Bromoform 10 108-10-1----4-Methyl-2-Pentanone Ū 10 IJ 591-78-6----2-Hexanone 10 127-18-4----Tetrachloroethene Ū 10 79-34-5----1,1,2,2-Tetrachloroethane 10 Ū 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 Ū 100-42-5----Styrene_ 10 U 1330-20-7-----Xylene (total) 10 Ū

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SA	MPLE	NO.
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TB 5/6

ab Name: ACCREDITED	LABS, INC.	Contract:
Lab Code: 11109	Case No.: 8342	SAS No.: SDG No.:
Matrix: (soil/water)	WATER	Lab Sample ID: 9801515
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID: >C7050
■Level: (low/med)	LOW	Date Received: 02/13/98
% Moisture: not dec.		Date Analyzed: 02/17/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor: 1.0
Goil Extract Volume:	(uL)	Soil Aliquot Volume:(uL)
Number TICs found:	0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAM	 EST. CONC.	Q
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Exhibit O

NEW YORK STATE SUPERFUND CONTRACT FOCUSED REMEDIAL INVESTIGATION REPORT Volume III

Volume III Appendix H

Former LAKA Industries Site Site No. 1-30-043K

Work Assignment No. D002676-27.1

DATE: November 1998



Prepared for:

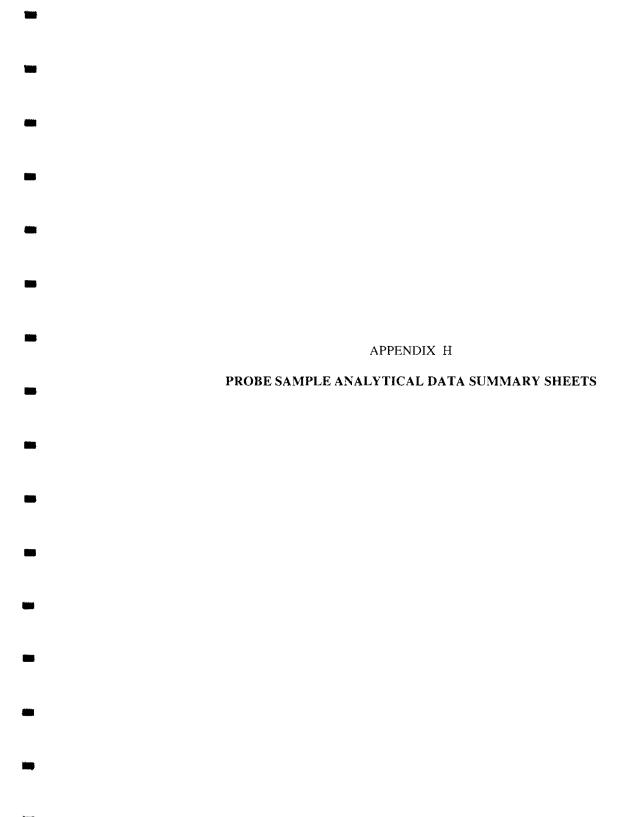
New York State
Department of
Environmental Conservation

50 Wolf Road, Albany, New York 12233 John Cahill, Commissioner

> Division of Environmental Remediation Michael J. O'Toole, Jr., *Director*

By:
Lawler, Matusky & Skelly Engineers LLP

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ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

Analytical Data Report

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

for

FEB 1 8 1998

LMS One Blue Hill Plaza Pearl River, NY 10965

For Hazardous Waste Section

Project: L A K A R I / F S

Accredited Laboratories Case No.: 7973 Date Received: 01/06/98

Tabamatam

Field ID	Sample #
(8-10)	9800103
(14-17) (20-22)	9800104 9800105

Accredited Laboratories, Inc. New York Certification Number 11109. This data has been reviewed and accepted by:

Yun shen Lee, Ph.D.

Technical Director

To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ALI Case # 7973 ANALYTICAL REQUIREMENT SUMMARY

Customer	Laboratory	Analytical Requirements								
Sample	Sample	*VOA	*BNA	*VOA	*Pest	*Metals	*Other			
Code	Code	GC/MS	GC/MS	GC	PCBs					
		Method	Method	Method	Method					
		#	#	#	#					
8-10	9800103 9800104 9800105	95-1								
14-17	9800104									
14-17 20-22	9800105	V								
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							,			
	***************************************	· · · · · · · · · · · · · · · · · · ·		-		1				

B-200 10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY

ANALYSES

VOLATILE (VOA) , ALI CASE # 7973

Laboratory		Date	Date Rec'd	, Date	Date
Sample ID	Matrix	Collected	at Lab	Extracted	Analyzed
9800103 9800104 9800105	poil	1/05/98	1/06/98		1/08/98
9800104	Poil	1/05/98	1/06/98		1/08/98
9800105	mil	1/05/98	1/06/98.	~	1/08/96
	(· ·		
•					

B-202 10/95

Table of Contents

	<u>Page</u>
SDG Narrative Laboratory Chronicles Chain-of-Custody Form Methodology Summary	1 2 4 5
GC/MS Volatiles Data: Sample Data Target Compound Results - Organic Analysis Data Sheet Tentatively Identified Compounds	6

SDG NARRATIVE

Accredited Labs received 3 soil samples (Project: LAKA RI/FS; ALI Case #7973) from LMS Engineers on 01/06/98 for the analyses of Volatile Organics.

All analyses were performed within the required holding time.

All soil analyses were reported on a dry weight basis.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

> Yun-shen Lee, Ph.D. 1/20/ Technical Director

commedi birecco.

Date: 01/06/98

ACCREDITED LABORATORIES, INC.

ORGANIC ANALYSIS LABORATORY CHRONICLE

HARD	COPY	01/16	VO	(95-1)	NY	CLP	METHOD	OTHER=NY-ASP	A	7	DAY	HOLD	TIME
------	------	-------	----	--------	----	-----	--------	--------------	---	---	-----	------	------

Client: L M S Test Date Due: 01/19/98

Operations Case Date Due: 01/16/98

Time: 12:28:

QC#:

Client Project Name: L A K A R I / F S

Date Sampled:01/05/98 Date Received:01/06/98 Report Package: Other

Test: VO
Test Description: Volatile Organics (VO)

on. voiacife organics (vo)

	В	Method:							ті	سے.
SAMPLE IDENTIFICATION				EXT	TRACTION	ANA	FLAG			
Field#	Case#	Sample#	X	Date	Time	Init	Date	Time	Init	_
(8-10) (14-17)	7973	9800103 9800104	s s				01/08/98		WL	-
(20-22)	7973	9800105	S							10.00

Reviewed by: ______ Date: 1/13/98_____

Abreviations: Sample Matrix:

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge X=Other RPT:Report()

2.

OMMENTS

ACCREDITED LABORATORIES, INC.

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 - 0369 PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FO	R	O	F	1	Y	D)	·C	T	S	u	C	F)	O	V	11	Δ	H	C	(
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PAGE	ı	OF I	į .

7973

ALI CASE

P.O.#

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LIENT	1 M	15 F.						PROJECT	1/4	11/1	RI/F	<u>-</u>		***************************************		
ADDRESS	Orto	Blue	1/1/	Pla	=			CONTACT			HEYZ					
CITY	P	-L Rive	<u> </u>	, ,,,,	Zu			PHONE								
STATE		VY		ZII	р	10965		PHONE (914) 735-8300 FAX (914) 735-7466								
		V I				10100			1 (/ / /	7 (778	<i></i>				
ALI SAMF	PLE #	FIELD	ID	*C	**M	DATE / TIME SAMPLED	SAM	IPLE DES	CRIPTI	ON		ANAL	YSIS	·		
9290	103	FLGP-01	3-10)	1	5	1-5-43/1400	GLOD	rate soil		1	VOCS (15-1)				
- 9900	154	FLGP-01 (14-17)	1	5	1-5 78/1430	Con	oriba seri	/5			95-1)				
9300	105	FLGP-01	20-22)	1	5	1-5-78/1430	620	probe se	cil c			15-1)				
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			Č.	Κ.,									***************************************			
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		***************************************				M .				T	\bigcirc ₂	***************************************		**		
											A/			***************************************		
		***									V					
**M = MA	TRIX	A=AQUE	ous	S=S(OIL	G=SLUDGE	P=PC	TABLE W	ATER	O=OIL	F=FILTER	K=\$0	LID X	=OTHER		
			1													
*C = NC). CONTA	AINERS	TURN	ARO	UNE	D:						(If B	llank, S	td. 3 weeks)		
			Υ							_		·				
DELIVER	ABLES (c	circle one)	S	TD		REDUCE	D	FULL		NY-A	SP (CLPI		CLP II		
		WIGHTED DV					DECE	VED 014				T				
PRIN		UISHED BY	SIGN		+	PRINT	NECE	VED BY:	SIGN		ORGANIZATION	DATE	TIME	REASON		
Sott G E.		J. J. J.	51	1	-											
-310 C C	<u> </u>	1-5-98	1700	*				11		· •	D		2			
		* Seuled			, / F	THE NIA	Inter	elli	///.	Almo	ALI	1/6/98	3	Analise		
EBSON(S)	ASSUMIN			7		AMPLING: PRI	NT: S	att G.	EN	10.4	SIGN:		<u>ک</u> الا	A CONTRACT		
						21601	20	100	<u>ー り</u> ノ			VE#		- June		
\0.144E\!T	- Fre	JEX t.	rack:	<u>.</u>	#	775/E	> / /	157			ALI QUOT	- 1	9973			

Accredited Laboratories, Inc. INTERNAL CHAIN OF CUSTODY

	-					_		•
Seal on	Sample	on Breaking Shuttle & A		ory: Accredite				
Respons	ibility	for Sample	Name: _				1fre: 74	
Field S	ample Se	al No	real	Date Broken: _	_//	Military	Time Seal	Broken
Case No	•	7973		Check if No	Seal on Sa	ample Shuttle	-	
]	Field	. #	Laboratory #	Test	Name	Date Sa	mpled	Date Received
(14	-10) 4-17) 0-22)		9800103 9800104 9800105	VO VO VO		01/05 01/05 01/05	/98	01/06/98 01/06/98 01/06/98
DATE	TIME	RELINQUISH	IED BY	RECEIVED BY	W. LL	ORENTE	PUR	POSE OF CHANGE OF CUSTODY
 , ,	 	Printed Na	ame	Printed Name	W. LL	ORENTE		,
1/8/98	<u> </u>	Signature	Murtinel	Printed Name Signature	lan Llo	rente	Co.	nalysis
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METHODOLOGY SUMMARY

Volatile Organics: EPA-CLP-SOW (Document Number OLM03.1)

Soil/Sediment Samples

a. Low level:

An inert gas is purged through a mixture containing 5g of sample and reagent water at an elevated temperature. The volatile organics are efficiently transferred from aqueous phase to the vapor phase and then trapped onto a sorbent column. When purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the volatile organics from the sorbent column to a GC column. The GC is temperature programmed to separate the volatile organics which are then detected and quantified with a mass spectrometer.

1A

EPA	SAMPLE	NO.
 8-1	10	

	VOLATILE ORGANICS ANALYS	IS DATA SHEET	
Ish Name: ACCREDITE	DIARC INC Contract		8-10
Lab Name: ACCREDITE	D LABS, INC. Contract	•	
Lab Code: 11109	Case No.: 7973 SAS No.	.: SDG No	.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9	800103
Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >	D4171
Level: (low/med)	LOW	Date Received: 0	1/06/98
% Moisture: not dec	. 4	Date Analyzed: 0	1/08/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume	:(uL)	Soil Aliquot Vol	ume:(uL)
CAS NO.		ENTRATION UNITS: L or ug/Kg) UG/KG	Q
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 75-27-4 78-87-5	ChloromethaneBromomethaneVinyl ChlorideChloroethaneMethylene ChlorideAcetoneCarbon Disulfide1,1-Dichloroethane1,2-DichloroethaneChloroform1,2-Dichloroethane1,1-Trichloroethane2-ButanoneCarbon TetrachlorideBromodichloromethane1,2-Dichloropropane	otal)	10

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79-01-6-----Trichloroethene

71-43-2----Benzene

108-88-3-----Toluene

75-25-2----Bromoform

591-78-6----2-Hexanone

108-90-7-----Chlorobenzene

100-42-5-----Styrene 1330-20-7------Xylene (total)

100-41-4----Ethylbenzene

124-48-1-----Dibromochloromethane

 $108-10-1-----4-Methyl-\overline{2-Pentanone}$

127-18-4----Tetrachloroethene

79-00-5----1,1,2-Trichloroethane

10061-02-6----trans-1,3-Dichloropropene

79-34-5----1,1,2,2-Tetrachloroethane

1E

EPA SAMPLE NO.

8-10

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCREDITED	LABS, INC.	Contract:	
Lab Code: 11109	Case No.: 7973	SAS No.: SDG I	No.:
Matrix: (soil/water)	SOIL	Lab Sample 1D:	9800103
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4171
Level: (low/med)	LOW	Date Received:	01/06/98
% Moisture: not dec.	4	Date Analyzed:	01/08/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION ONTIS:
Number TICs found: 3 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131 2. 3. 4. 5.	Ethane, 1,1,2-trichloro-1,2, Unknown Hydrocarbon Unknown Aromatic	9.84 29.30 33.64	64 25 100	N N N
7. 8.				
10. 11. 12.				
14. 15. 16.				
17. 18. 19. 20.				
21. 22. 23.				
25. 26. 27.				
28. 29. 30.		The property of the property of		

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

	VOLATILL ORGANICE	ANALISIS DATA SHE	1.	1
Lab Name: ACCREDITE	D LABS, INC.	Contract:	•	14-17
Lab Code: 11109	Case No.: 7973	SAS No.:	SDG No.:	,
Matrix: (soil/water)	SOIL	Lab Sampl	e ID: 9800	104
Sample wt/vol:	5.0 (q/mL) G	Lab File	ID: >D41	72
Level: (low/med)			ived: 01/0	
% Moisture: not dec.			yzed: 01/0	•
GC Column: RTX-502	ID: 0.53 (mm)		Factor:	
Soil Extract Volume:	(uL)	Soil Aliq	uot Volume	:(uL)
CAS NO.	COMPOUND	CONCENTRATION US (ug/L or ug/Kg)		Q
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 79-01-6	Carbon Disulfi1,1-Dichloroet1,2-Dichloroet1,2-Dichloroet1,2-Dichloroet2-Butanone1,1-TrichlorCarbon TetrachBromodichlorom1,2-Dichloroprcis-1,3-Dichlorom1,1,2-TrichlorDibromochlorom1,1,2-TrichlorBenzenetrans-1,3-Dichlorom4-Methyl-2-Pen2-HexanoneTetrachloroeth1,1,2,2-TetracTolueneChlorobenzene	de hene hane hene (total) hane coethane loride ethane copane ropropene ee lethane oethane loropropene lethane oethane	10 10 10 10 10 10 10 10 10 10 10 10 10 1	

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

TENTATIVELY IDENTIFIED COMPOUNDS		
	14-17	
Lab Name: ACCREDITED LABS, INC. Contract:		

■Matrix: (soil/water) SOIL Lab Sample 1D: 9800104

Sample wt/vol: 5.0 (g/mL) G Lab File TD: -D4172

Level: (low/med) LOW Date Received: 01/06/98

% Moisture: not dec. 4 Date Analyzed: 01/08/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ___ (uL) Soil Aliquot Volume: ___ (uL)

CONCENTRATION UNITS: Number TICs found: 2 (ug/L or ug/Kg) UG/KG

11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	Q
4.	N N
6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16.	
8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	
9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	
11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	
12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	
14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	
15. 16. 17. 18. 19. 20. 21. 22. 23.	
17. 18. 19. 20. 21. 22. 23.	
18. 19. 20. 21. 22. 23.	
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC. C	ontract:
Lab Code: 11109	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800105
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4173
Level: (low/med) LOW	Date Received: 01/06/98
% Moisture: not dec. 3	Date Analyzed: 01/08/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
74-87-3	10

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

		TIFIED COMPOUNDS	20-2	2
	ITED LABS, INC. Con			
b Code: 11109	Case No.: 7973 SA	AS No.:	SDG No.:	
trix: (soil/wat	er) SOIL	Lab Sample	ID: 9800105	
mple wt/vol:	5.0 (g/mL) G	Lab File II): >D4173	
vel: (low/med	l) LOW	Date Receiv	ved: 01/06/98	
Moisture: not d	lec. 3	Date Analyz	ed: 01/08/98	
Column: RTX-50	22 ID: 0.53 (mm)	Dilution Fa	ctor: 1.0	
il Extract Volu	me:(uL)	Soil Alique	t Volume:	(
umber TICs foun		CONCENTRATION UNI (ug/L or ug/Kg) U	-	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Ç
1. 76131 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19		0-1,2, 9.89 29.30 33.64	75 10 37	N N N

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCREDITE	D LABS, INC.	Contract:	VBLKD04
Lab Code: 11109	Case No.: 1973	SAS No.: SDG	No.:
Matrix: (soil/water) SOIL	Lab Sample ID:	VBLKD04
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4169
Level: (low/med)	LOW	Date Received:	01/08/98
% Moisture: not dec	. 0	Date Analyzed:	01/08/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Facto	r: 1.0
Soil Extract Volume	:(uL)	Soil Aliquot V	olume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/K	G Q
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-34-3 75-34-3 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 124-48-1 79-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4	Carbon Disul1,1-Dichloro1,2-Dichloro1,2-Dichloro1,2-Dichloro2-Butanone1,1-TrichlCarbon TetraBromodichlor1,2-Dichlorotis-1,3-DichTrichloroethDibromochlor1,1,2-TrichlBenzenetrans-1,3-DiBromoform4-Methyl-2-P2-HexanoneTetrachloroe1,1,2,2-Tetr	de	10

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108-90-7-----Chlorobenzene

100-41-4-----Ethylbenzene_

1330-20-7-----Xylene (total)

100-42-5----Styrene

EPA SAMPLE NO.

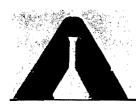
1E VOLATILE ORGANICS ANALYSIS DATA SHEET

,	• ~		. ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
	TENT	PATIVELY	IDENTIFIED	COMPOUNDS	VBLKD04	
)	LABS,	INC.	Contract:	450		

Lab Name: ACCREDITED LABS, INC.	CONTRACT:
_ab Code: 11109	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: VBLKD04
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4169
Level: (low/med) LOW	Date Received: 01/08/98
Moisture: not dec. 0	Date Analyzed: 01/08/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
	CONCENTRATION UNITS:

1	Number TICs for	und: 1		or ug/Kg)	
	CAS NUMBER	COMPOUN	NAME	RT	EST

CAS NUMBER			COMPOU	ND NAME		RT	EST	EST. CONC.	
2.	76131	Ethane,	1,1,2-	trichlo	ro-1,2,			55	N
3. 4.									-
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ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

Analytical Data Report

FEB 1 8 1998

for

For Hazardous Waste Section

L M S
One Blue Hill Plaza
Pearl River, NY 10965

Project: LAKA RI/FS

Accredited Laboratories Case No.: 7987 Date Received: 01/07/98

_	Laboratory
Field ID	Sample #
02(1-2)	9800141
02 (5-6)	9800142
02(8-9)	9800143
02(22-23)	9800144
03 (4-5)	9800145
03(11-12)	9800146
03(14-16)	9800147
03(16-17)	9800148
03(18-19)	9800149
03(20-21)	9800150
03 (34-35)	9800151
04 (8-9)	9800152
04(13-14)	9800153
04 (33-34)	9800154
FLFB-01	9800155
05(9-10)	9800156
05(16-17)	9800157
06(10-11)	9800158
06(20-22)	9800159



ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

Analytical Data Report

for

LMS One Blue Hill Plaza Pearl River, NY 10965

Project: L A K A RI/FS

Accredited Laboratories Case No.: 7987 Date Received: 01/07/98

Taboratory

Field ID	Sample #
07(10-11)	9 80 0 160
07 (14-16)	9800161
07 (18-20)	9800162
07 (22-24)	9800163

Accredited Laboratories, Inc. New York Certification Number 11109. This data has been reviewed and accepted by:

Yun shen Lee, Ph.D. 3/17 Technical Director

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY ALI CASE# 7187

FLGP-02(1-2) 9800141 CLP FLGP-02(5-6) 9800142 CLP FLGP-02(8-9) 7800143 CLP FLGP-02(22-26) 9800144 CLP FLGP-03(4-5) 9800145 CLP FLGP-03(11-12) 9800146 CLP FLGP-03(N-16) 9800147 CLP	*Other Cyanille CLP
Method Method Method ## ## F161-02(1-2) 9800/4/ CLP F169-02(5-6) 9800/42 CLP F169-02(8-9) 7800/43 CLP F169-02(2-12) 9800/43 CLP F169-03(4-5) 9800/45 CLP F169-03(11-12) 9800/46 CLP F169-03(N-16) 9800/47 CLP	
######################################	
FLGP-02(1-2) 9800141 CLP FLGP-02(5-6) 9800142 CLP FLGP-02(8-9) 7800143 CLP FLGP-02(22-26) 9800144 CLP FLGP-03(4-5) 9800145 CLP FLGP-03(11-12) 9800146 CLP FLGP-03(N-16) 9800147 CLP	
FLGP-02(5-6) 9800142 CLP FLGP-02(8-9) 7800143 CLP FLGP-02(12-12) 9800144 CLP FLGP-03(4-5) 9800145 CLP FLGP-03(11-12) 9800146 CLP FLGP-03(N-14) 9800147 CLP	CIP
FIGP-02(8-9) 9800143 CLP FIGP-02(22-23) 9800145 CLP FIGP-03(4-5) 9800145 CLP FIGP-03(N-12) 9800146 CLP FIGP-03(N-14) 9800147 CLP	CLP
FIGP-02(8-9) 9800143 CLP FIGP-02(22-23) 9800145 CLP FIGP-03(4-5) 9800145 CLP FIGP-03(N-12) 9800146 CLP FIGP-03(N-14) 9800147 CLP	CLP
FLGP-02(21-22) 9800144 CLP FLGP-03(4-5) 9800145 CLP FLGP-03(11-12) 9800146 CLP FLGP-03(N-16) 9800147 CLP	
FLGP-03(11-12) 9800146 CLP	
FLGP-03(N-16) 9800147 CLP	
FLGP-03(N-16) 9800147 CLP	
FLGP-03/16-M 9800148 CLP	
FLGP-03(18-18) 9800149 - CLP (CLP
FLGP-03(20-2) 980D 150 CLP	
FLGP-03/34-31) 9800 151 CLP	
PGP-04(84) 9800152 CW	
FLGP-04(15-14)9800153 CLP	
FLGP-04(33-31) GX00 154 CLP	
FLFB-01 9800 NS CLP CLP	CLP
FLGP-05/9-101 9800 156 CLP CLP	CLP
FLGP-05(16-17) 9500 157 CLP CLP	CLP
FLGP-66/10-11) 98 00 158 CLP CLP	CLP
tibp-06/20-22) 9800 159 Clp CIP	CLA
PLGP-07/10-11) 9800 160 CLP CLP	CLP
FLGP-07(14-16) 9800161 CLP	CLP
FLGP-07(18-20) 9800162 CLP CLP	CLP
FLGP-07(22.44) 9800163 CLP CLP	CLP

B-200 10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) , ANALYSES

ALI CASE # 7987

Laboratory		Date	, Date Rec'd	, Date	Date
Sample ID	Matrix	Collected	at Lab	Extracted	Analyzed
9800141	soil		1/7/98		1/8/98.
9800M2	soil		1/7/98		1/10/98
9800143	roil		1/7/98		1/8/98
9800144	soil		1/7/98		1/10/98
9800 145	poil		1/7/98		1/9/98
9800146	Ruil		1/7/98		1/12/98
9800147	poil		1/1/28		1/12/98
9800148	poil		1/7/98		1/9/98
9800150	poil		1/7/98		119/98
9800151	pail		1/7/98		119198
9800152	poil		1/7/98		1/9/98
9800,53	poil		1/7/98		1/9/98
9800154	poil		1/7/98		1/12/98
98005	ageour.		1/2/98		1/10/98
9800 152	fail		1/7/98		1/9/98
9800157	pail		1/7/98		1/12/98
9800158	poil		1/7/98		1/12/98
9800159	poil		1/7/98		1/12/98
9800160	roil		1/7/98		1/12/98
9800161	poil		1/7/98		1/12/98
9800162	poil		1/7/98		1/12/98
9500163	poil		1/7/98		1/12/98

B-202 10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

ALI CASE # 7987

Laboratory			Date Rec'd	Date
Sample ID	Matrix	Metals Requested	at Lab	Analyzed
9800143	soil	TAL	11.7/98	1/29/98
9800143	sail	yanide TAL	1/7/98	1/12/98
9800 149	pool	TAL	1/7/98	1/29/98
9800149	poul	cumide	1/7/98	1/12/98
9800155	agrow	TAL	11.7/98	1/29/98
9800155	agion	oyanide	1/7/98	1/12/98
9800 15%	coil	TAL	1/7/98	1/29/98
9800 156	(soil	cyanide	1/ 7/98	1/12/98
9810 157	poil	TAL	1/7/98	1/29/98
9800157	poil	cyanide	1/7/98	1/12/98
9800,58	foil	TAL	1/7/98	1/29/98
9800 NB	puil	cyanide	11.7/98	1/12/98
9888159	poil	TAL	1/7/98	1/29/98
9800159	inil	cyaride	1/7/98	1/12/98
9800160	poil	TAL	1/7/98	1/29/98
9800160	soil	eyanide	1/7/98	1/12/98
9800161	poil	TAL	117/98	1/29/98
9800161	poil	eyanide	11 7/98	1/12/98
9800 162	poil.	TAL ayanide TAL	1/7/98	
9800162	poil	oyanide	1/7.198	1/12/98
9800163	poil	oyanide TAL	1/7/98	1/29/98
9800163	poil	cyanide	1/7/98	1/12/98

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GC/MS Volatiles Data: Sample Data Target Compound Results - Organic Analysis Data Sheet Tentatively Identified Compounds	101
Inorganic Data: Sample Data Results - Inorganic Analysis Data Sheet	160

SDG NARRATIVE

Accredited Labs received 22 soil samples and 1 aqueous sample (Project: LAKA RI/FS; ALI Case #7987) from LMS Engineers on 1/07/98 for the analyses of Volatile Organics, TAL Metals and Total Cyanide.

All analyses were performed within the required holding time.

All soil analyses were reported on a dry weight basis.

In the Volatile Organic analyses, ALI samples #9800141, #9800143, #9800148, #9800150 and #9800151 have compounds whose concentration exceeds the calibration range of the instrument. The samples were diluted and re-analyzed and reported.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature. "

Yun-spen Lee, Ph.D. Technical Director

ACCREDITED LABORATORIES, INC.

ORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client: L M S

Test Date Due: 01/20/98

Time: 13:52:41

Operations Case Date Due: 01/19/98

Client Project Name: LAKA RI/FS

Date Sampled:01/06/98 Date Received:01/07/98 Report Package: Other

Test: VO
Test Description: Volatile Organics (VO)

By Method:

Volatile Organics (VO)

SAMPLE	•	FICATION	 M +	EXT	TRACTION		ANA	ALYSIS	TIC FLAG
Field#	Case#	Sample#	X	Date	Time	Init	Date	Time	Init
02(1-2) 02(5-6) 02(8-9) 02(22-23 03(4-5) 03(11-12 03(14-16 03(16-17 03(20-21 03(34-35) 04(8-9) 04(13-14 04(33-34 FLFB-01 05(9-10) 05(16-17 06(10-11 06(20-22 07(10-11	7987 7987 7987 7987 7987 7987 7987 7987	9800141 9800142 9800143 9800144 9800145 9800146 9800147 9800148 9800150 9800151					01/08/98 01/08/98 01/09/98 01/10/98 01/10/98 01/10/98 01/10/98 01/09/98 01/09/98 01/09/98 01/09/98 01/09/98 01/09/98 01/09/98 01/09/98 01/09/98 01/10/98 01/10/98 01/10/98 01/10/98		WL
		9800162	S S				01/12/98		

Reviewed by:

Date:

1 /19/98

Abreviations: Sample Matrix:

Mtx: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge

X=Other

RPT:Report01

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:31:0

HC 0	1/19	OTHER=N	Y-ASP	A CLP	METH	OD: VO	95-1,	Cn 335.	2 7 DAY	HOLD I	'IME
Fic Cl	eld#: ient :	L M S 02(8-9) Sample D mpled: 0	escri	ption: 98 Dat		ase#:^	7987	ions Ca: Sai	st Date se Date mple#: !	Due: 01 9800143	/19 / 98
Tes Pro Mt:	oject x:A=A	scriptio Name: L	A K . =Soil	A RI	/ F	S	•	P=Potab	QC#	:	
Ву І	Method	d:						ABORATO) RATION	RY CHRON: Al	ICLE NALYSIS	;
MTX	EL	EMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Alum	inum	Al	ana Meneralita manakan mana		-	1/14/98	2m	- 2/3/93	W	337-20
s	Anti	mony	Sb						<u> </u>		
s	Arse	nic	As								
s	Bari	um	Ва						2/3/48	M	833-20
s	Bery	llium	Ве								
s	Cadm	ium	Cd	***************************************					-		
s	Calc	ium	Ca						***************************************		•
S	Chro	mium	Cr								
s	Coba	lt	Co		-						•
s	Coppe	er	Cu			****					- 📙
s	Iron		Fe						2/4/58		833-21
s	Lead		Pb						· · · · · · · · · · · · · · · · · · ·		
s	Magn	esium	Mg		-				2/3/48	W	8 33-7 8
S	Mang	anese	Mn								
Qua	lity	control	Repor	t Numbe			 114B				
Revi	ewed	by:	V -		proceed.	Date:_	3/h			RPT:Per	ort02

ACCREDITED LABORATORIES, INC. Time: 11:32:10 INORGANIC ANALYSIS LABORATORY CHRONICLE

Sa	x:A=Aqueous: mple Comment	:s:			LJ	ABORATORY	CHRON	ICLE	
By 1 MTX	Method:	SYM		UNITS	PREPAI ====== DATE	NOITAS ===== TINI		NALYSIS ====== INIT	
===							=====		
S	Mercury	Hg	 				1 1		
s	Nickel	Ni	 		1/14/98	D.M.	2/3/48	\mathcal{N}	<u>833-</u>
S	Potassium	K	 •						
s	Selenium	Se	 ***************************************	-					•
s	Silver	Ag	 				2/4/4	W	8337
s	Sodium	Na	 ***************************************				2/3/58		133-
s	Thallium	Tl	 						
s	Vanadium	V					2/3/5/	w	833
s	Zinc	Zn							(
S	Zinc	Zn	 						-

Quality control Report Number(s): 980/148

Reviewed by: _____ Date: ____

RPT:Report02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:31:

HC	01/1	.9	OTHER=NY-	ASP	A	CLP	METHOD:	v o	95-1,	Cn	335.2		7	DAY	HOLD	TI	ME
_			and the second s									4					-

Client: L M S

Test Date Due: 01/20/98

Operations Case Date Due: 01/19/98

Field#: 02(8-9) Case#: 7987 Sample#: 9800143

Client Sample Description:
Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

Test: TAL QC#: (\(\frac{1}{2} \)

Test Description: Total Analyte List (TAL)

Project Name: LAKA RI/FS

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O Sample Comments:

TX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Aluminum	Al		*			Dm.			
s	Antimony	Sb								
s	Arsenic	As						3/3	pr	<u>۲ ر الا</u>
s	Barium	Ba								
s	Beryllium	Be						***************************************		
s	Cadmium	Cd								
s	Calcium	Ca								
s	Chromium	Cr								
s	Cobalt	Co								
S	Copper	Cu			•				_	
s	Iron	Fe	···					***************************************	_	
S	Lead	Pb	www.com.com.					3/7	<u> </u>	<u> </u>
s	Magnesium	Mg					_			
s	Manganese	Mn				1	- 1			

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ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:32:10

HC 01/19 CLP METHOD: VO 95-1, Cn 335.2 OTHER=NY-ASP A 7 DAY HOLD TIME

Client: L M S

Test Date Due: 01/20/98

Operations Case Date Due: 01/19/98

LABORATORY CHRONICLE

Field#: 02(8-9)

Case#: 7987 Sample#: 9800143

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I / F S

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

Sample Comments:

By I	Method:		, <u>, , , , , , , , , , , , , , , , , , </u>			PREPAI	RATION	Al	ALYSIS	
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Нд								
s	Nickel	Ni				1/14/98	D.m.			
s	Potassium	K						***************************************		NAME OF THE PROPERTY OF THE PR
s	Selenium	Se	***************************************					3/8	M	18- <u>(18</u>
s	Silver	Ag						***************************************		***************************************
s	Sodium	Na								
s	Thallium	Tl						3/6	W	817-34
s	Vanadium	v	***************************************							annesenanneneeeee
s	Zinc	Zn	***************************************							W-14444444444

Quality	control Report	Number(s):	9801146	3			
Reviewed	by:	D	ate:		I.	RPT:Repo	rt02

6

Time: 11:32:

Date: 01/07/98 ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME Client: L M S Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98 Case#: 7987 Field#: 02(8-9) Sample#: 9800143 Client Sample Description: Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other QC#: 9X0017 Test: TAL Test Description: Total Analyte List (TAL) Project Name: LAKA RI/FS Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O | Sample Comments: LABORATORY CHRONICLE By Method: PREPARATION ANALYSIS _____ _===== RESULT MDL MTX ELEMENT SYM UNITS DATE INIT DATE INIT REF S Mercury Hq

S Nickel Ni Potassium K Selenium S Se Silver S Aq Sodium S Na Thallium S Tl Vanadium S S Zinc Zn

							 			•
-							 			
				-		*	 -			
							 -			
Quality	control	Report	Number	(s):_C	180	1148				
Reviewed		m		•	te:	2/10	_	RPT:Repo	ort02	
							-	-,		

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:32:17

OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME HC 01/19

Client: L M S

Test Date Due: 01/20/98

Operations Case Date Due: 01/19/98

Field#: 03(18-19)

Case#: 7987

Sample#: 9800149

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

QC#: Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I / F S

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

S And S Ard S Ban S Ben S Cad	uminum timony senic rium ryllium	Al Sb As Ba Be				1/14/18	D,m.	2/3/48		833-1
S And S Ard S Ban S Ben S Cad	timony senic rium ryllium	Sb A s Ba				77778	- L),m(-	43/10		
S Ars S Bai S Bei S Cac	senic rium ryllium	A s Ba								
S Bei	rium ryllium	Ва					1			
S Bei	ryllium					1		2/3/58	M	033-
S Cad	-	Be		***************************************		-		45111	1	. <u>833-</u> 0
	_ ,		-			-				. 📙
	dmium	Cd			***************************************					. 丰
S Cal	lcium	Ca	* ***********************************							
S Chi	romium	Cr								
S Col	balt	Co			***					
S Cop	pper	Cu		~~~						
s Ire	on	Fe	***************************************					2/4/90		833-0
S Lea	ad	Pb						*		
S Mag	gnesium	Mg			***************************************			2/3/98	M	833-2
S Mai	nganese	Mn								

Date: 01/07/9				BORATORIES LABORATORY			Time:	11:32:
HC 01/19 OTHER	=NY-ASP A	CLP MET	HOD: VO	95-1, Cn	335.2	7 DAY	HOLD T	IME _
Client: L M S Field#: 03(18				Operation 7987	ns Case	Date D		
Client Sample Date Sampled:	Descript				_	t Packa	ige: Otl	ner
Test: TAL Test Descript Project Name: Mtx:A=Aqueous Sample Commen	LAKA :S=Soil:O	RIJF	S `	•	Potable	QC#: Water:		ge:X=O
By Method:			······	LABO PREPARAT	RATORY		CLE NALYSIS	
MTX ELEMENT	SYM R	ESULT MDL	UNITS	DATE]	INIT	DATE	INIT	REF
S Mercury	Hg _			14460		ahtea		

MTX ===	ELEMENT	SYM =====	RESULT	MDL ====	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Нg			***************************************					
s	Nickel	Ni				1/14/98	D.M	2/3/48	M	833-20
s	Potassium	K							<u>i</u>	
s	Selenium	Se								
s	Silver	Ag						2/4/48	w	833-21
s	Sodium	Na						2/3/48		833-20
s	Thallium	т1								
s	Vanadium	V						2/3/18	1	833-20
c	7ina	7 n						1		

Quality c	ontrol Report Number(s): 980/148	
Reviewed by	y: Date:	RPT:Report02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

INC. Time: 11:32:17

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Cl	ien	t:	${f L}$	M	S

Test Date Due: 01/20/98

Operations

Operations Case Date Due: 01/19/98

Field#: 03(18-19) Case#: 7987 Sample#: 9800149

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

Test: TAL QC#: 9801

Test Description: Total Analyte List (TAL)

Project Name: LAKA RI/FS

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

MTX	ELEMENT	SYM	RESULT	MDT	UNITS	DATE	INIT	DATE	INIT	REF
===		=====	=====	====	=====	======		=====	======	====
s	Aluminum	Al				1/14/48	Dim.			
s	Antimony	Sb				1				
s	Arsenic	As				4		9/3	In	817-
s	Barium	B a				_			-	
s	Beryllium	Be								
s	Cadmium	Cd				4				
s	Calcium	Ca								***************************************
s	Chromium	Cr								
s	Cobalt	Co								
s	Copper	Cu								
s	Iron	Fe								
s	Lead	Pb						3/7	M	817~
s	Magnesium	Mg							***************************************	
s	Manganese	Mn			-	<u> </u>				
				<u>. </u>						

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ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:32:

INORGANIC ANALYSIS LABORATORY CHRONICLE

HC 0	1/19	OTHER=	ny-asp	A CLP	METH	OD: VO	95.	-1, (Cn 33	35.2	7 DAY	HOLD T	IME
		LMS					Ope	erati	ions	Case	Date	Due: 01 Due: 01	/19/98
		03(18-) Sample		ption:	C	ase#:	79	987		Samp	le#:	9800149	•
Da	te Sai	mpled:	01/06/	98 Dat	e Rec	eived:	01,	/07/9	98 I	Repor	t Pack	_	
	st: T		on. To	tal Ana	luta	Tiet (י איז.	\			QC#	: 480	101~
Pro	oiect	Name:	LAK	A R I :0=0il:	/ F	S	_		P=Pot	able	Water	:G=Slud	qe:X=0
Sar	mple (Comment	s:										_
By 1	Method	i:					PI	LA REPAR			CHRON A	ICLE NALYSIS	
MTX	EL	EMENT	SYM	RESULT		UNITS	=== D?	 \TE	INI	== T	DATE		REF
S	Merci	-	Hg					1,160		1.			
S	Nicke		Ni				4	14/98	$-\lambda$.m.			
S		ssium	K					 			7/1		1/15 3
S	Selei		Se	***************************************			*********				-14		<u> - ۲۱۲ - </u>
s	Silve	er	Аg										
s	Sodi	um	Na	\$1101									11
s	Thal	lium	Tl								<u>ə/t</u>	M	V17-3
s	Vanad	dium	V					 					
s	Zinc		Zn								····		
													_
													•
													-
-													
						- <u> </u>						· · · · · · · · · · · · · · · · · · ·	. <u> </u>
				t Numbe			<u>>/</u>	14	<u>rs</u>				
Revi	ewed :	by:				Date:_						RPT:Rep	ort02
												/ /	_

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:32:2

C1:	ient: L M	S					Tes	t Date	Due: 01	
Cl	eld#: 03(1 ient Sampl te Sampled	le Descri	ption: 98 Dat		ase#:	7987		ple#:	9800149)
	st: TAL			•	T :t			QC#	: <u>980</u> 0	17
Pro	st Descrip Dject Name K:A=Aqueou mple Comme	: L A K . s:S=Soil	A RI	/ F	S	lters:				lge:X
Ву М	Method:					PREPAR			NALYSIS	1
MTX ===	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
S	Mercury	Нд				hg 198	W	1/24/41	M	839-
s	Nickel	Ni				1/14/48	D.M.			,
S	Potassium	ı K				4				
S	Selenium	Se			······					
S	Silver	Ag			MANAGES SERVICE MANAGEMENT AND ADDRESS OF THE PARTY OF TH					
S	Sodium	Na							<u></u>	
S	Thallium	Tl								
S	Vanadium	V				1				
s	Zinc	Zn	····	-						
	lity contr				980		_			

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ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:32: 5

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Test Test Proj Mtx: Samp By Me MTX === = A A A A A B A B	ent Sample e Sampled: t: TAL t Descripti ject Name: :A=Aqueous: ole Comment ethod:	01/06/ on: To L A K S=Soil	98 Date tal Anal	yte I / F S	List (1 S		/98 Rep		age: Ot : 9800	
By Me MTX A A A A A A A A	ethod:	s:			id:F=Fi		:P=Potab			
A A A A A A A A B A B	full horsestrane					PREPA	ABORATO	RY CHRONI AN	NALYSIS	
A A A A A A A B A B	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
A A A B	Aluminum Antimony	Al Sb				1/14/9	8 D.M			833-2:
A B	Arsenic	As		-						
	Barium	Ba -	-				_	2/3/58	W/	833-7
- L	Beryllium Cadmium	Be Cd					-			
A C	Calcium	Ca								
A C	Chromium	Cr								. 🗼
	Cobalt Copper	Co Cu			······································		_			, 1
	Iron	Fe						2/4/95	7	833-8
A I	Lead	Pb					_	1. 1. 2		
	Magnesium	Mg		***************************************				2/3/48	_W_	833-
	Manganese	Mn								
Quali eviev	ity control	Repor	t Number	(s):	480	2114	K			

ACCREDITED LABORATORIES, INC. Time: 11:32:36 INORGANIC ANALYSIS LABORATORY CHRONICLE

RPT:Report02

	mple Comment Method:	.s:				PREPAR	MOITAS	RY CHRON A	ICLE NALYSIS	3
TX	ELEMENT	SYM	RESULT	MDL ====	UNITS	DATE	INIT	DATE	INIT	REF
A	Mercury	Нg								_
A	Nickel	Ni				1/14/98	D.m.	43/98	M	<u>B33-2</u>
A	Potassium	K		***************************************		<i>——</i>			<u> </u>	
A	Selenium	Se						***************************************		
A	Silver	Ag						2/4/98	W	833-7
A	Sodium	Na			***************************************			2/3/50		833-
A	Thallium	Tl								-
A	Vanadium	V						2/3/48	<u>W</u>	833-C
Α	Zinc	Zn			-					

Reviewed by:_____ Date:____

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:32:

Cli Dat Tes Tes Pro Mtx	eld#: FLFB-0 ient Sample te Sampled: st: TAL st Descripti oject Name: c:A=Aqueous: aple Comment	Descri 01/06/ on: To L A K S=Soil	ption: 98 Date Restal Analyte A R I / F	List ('	7987 01/07/9 FAL) ilters:P	8 Repor P=Potable	le#: t Pack QC# Water	9800155 age: Ot : <u></u>	ther (1)
Ву М	Method:	Western Wasser			PREPAR			ICLE NALYSIS	;
MTX	ELEMENT	SYM	RESULT MDL	UNITS	DATE	INIT	DATE	INIT	REF '
A	Aluminum	Al			1/14/98	D.m.		-	
A	Antimony	Sb							
A	Arsenic	As					3/3	m	४१७, व
A	Barium	Ba							
A	Beryllium	Be							
A	Cadmium	Cd							
A	Calcium	Ca							
A	Chromium	Cr							
A	Cobalt	Co							
A	Copper	Cu							
A	Iron	Fe	***				~ 1		
A	Lead	Pb					9/2	W	377-3
A	Magnesium	Mg							
A	Manganese	Mn							*

Qual	lity control	Repor	t Number(s)	: 980	71146	7			
Revie	ewed by:			Date:				RPT:Rep	ort02

ACCREDITED LABORATORIES, INC. Time: 11:32:36 INORGANIC ANALYSIS LABORATORY CHRONICLE

A Me	ELEMENT Ercury		RESULT			PREPAR		- ~- **********************************	ICLE	
A Me	ercury			MINT	UNITS	DATE	ATION ===== INIT		NALYSIS ===== INIT	====
A Ni	•								======	REF ====
		Hg		***************************************						
A Po	ckel	Ni			***************************************	1/14/98	D.m.			
	tassium	K	***************************************			'				
A Se	elenium	Se						3/8	hu	817
A Si	lver	Ag								
A So	dium	Na		,						
A Th	allium	Tl						3/6	m	817
A Va	nadium	V						***************************************	*	
A Zi	.nc	Zn	***************************************	-						

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ACCREDITED LABORATORIES, INC.

Time: 11:32:__6

INORGANIC ANALYSIS LABORATORY CHRONICLE HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98 Client: L M S Case#: Field#: FLFB-01 7987 Sample#: 9800155 Client Sample Description: Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other 980017 Test: TAL QC#: Test Description: Total Analyte List (TAL) Project Name: LAKA RI/FS Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O Sample Comments: LABORATORY CHRONICLE By Method: PREPARATION ANALYSIS _____________ ========= MTX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT REF Mercury A Hq Nickel Ni Potassium K Selenium Α Se Silver Α Aq Sodium Α Na Thallium T1 Vanadium Α Zinc Α Zn Quality control Report Number(s): 980/14 8 Date: RPT:Report02 Reviewed by:

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:32:47

OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME HC 01/19

<u> </u>	•		
Client: L M S	Test Date D	ue: 0	1/20,

Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98

Field#: 05(9-10) Case#: Sample#: 9800156

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

920012 QC#: Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I / F S

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

MTX	ELEMENT	SYM	RESULT	MDT.	UNITS	DATE	INIT	DATE	====== INIT	===== REF
===	=========	======	======	====	=====	=====	=====	=====	======	====
s	Aluminum	Al				1/14/95	2.m-	2/3/98		333-2
s	Antimony	Sb				1		1		
s	Arsenic	As		-		\perp				
s	Barium	Ba						2/3/18	.M	833-2
s	Beryllium	Ве								
s	Cadmium	Cd								
s	Calcium	Ca								
s	Chromium	Cr								
s	Cobalt	Co								1
s	Copper	Cu								
s	Iron	Fe						2/4/48		<u>B33-</u>
s	Lead	Pb								
S	Magnesium	Mg						2/3/48	M	433-
s	Manganese	Mn								

Time: 11:32: 4

Date: 01/07/98 ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 HC 01/19 7 DAY HOLD TIME Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98 Client: L M S Field#: 05(9-10) Case#: 798**7** Sample#: 9800156 Client Sample Description: Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other Test: TAL QC#: Test Description: Total Analyte List (TAL) Project Name: L A K A R I / F S Mtx: A=Aqueous: S=Soil:0=0il: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=0-7 Sample Comments: LABORATORY CHRONICLE By Method: PREPARATION ANALYSIS ___________ RESULT MDL UNITS DATE ELEMENT SYM INIT INIT REF S Mercury Hq Nickel Ni S Potassium S K S Selenium Se Silver S Aq 83}-S Sodium Na Thallium S T1 Vanadium S V Zinc S Zn Quality control Report Number(s): 9801148

Date:

Reviewed by:

RPT:Report02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:32:47

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client: L M S	Test Date Due: 01/20/98	3
	Operations Case Date Due: 01/19/98	3

Case#: Field#: 05(9-10) 7987 Sample#: 9800156

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

QC#:

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I / F S

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

ву 1	Method:						ABORATORY RATION		ICLE NALYSIS	
MTX ===	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Aluminum	Al				1/14/98	D.M -			
s	Antimony	Sb				//				
s	Arsenic	As						<i>3/3</i>	M	<u> </u>
s	Barium	Ba								
s	Beryllium	Ве								
s	Cadmium	Cd								
s	Calcium	Ca								
s	Chromium	Cr								
s	Cobalt	Co								
s	Copper	Cu								
s	Iron	Fe			•					
s	Lead	Pb						3/5	M	<u>X17</u>
s	Magnesium	Mg								
S	Manganese	Mn								

20

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:32: 4

2/

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME Client: L M S Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98 Case#: 7987 Field#: 05(9-10)Sample#: 9800156 Client Sample Description: Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other Test: TAL Test Description: Total Analyte List (TAL) Project Name: LAKA RI/FS Mtx: A=Aqueous: S=Soil:0=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O+h Sample Comments: LABORATORY CHRONICLE PREPARATION By Method: ANALYSIS **ELEMENT** RESULT MDL UNITS DATE INIT DATE **MTX** SYM INIT REF AUSSENGESESSES ESESSE ESES ESPAS ESESSE ESESSE S Mercury Hq Nickel S Ni Potassium S S Selenium Se Silver S Ag S Sodium Na S Thallium Tl S Vanadium S Zinc Zn Quality control Report Number(s): 980//48 Reviewed by: Date: RPT:Report02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client: L	M S				Operations	Test	Date	Due:	01/20/98
Field#: 0 Client Sa			on•	Case#:	7987	Samp]	le#:	9800	156
Date Samp	led:	01/06/98	Date	Received:	01/07/98	Report	Pacl	cage:	Other
Test: TAL							QC	#:	61008P

Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I / F S
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

Sample Comments:

MTX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT S Mercury Hg	
	REF
S Nickel Ni	839-11
/ 1// 1	
S Potassium K	
S Selenium Se	***************************************
S Silver Ag	
S Sodium Na	
S Thallium Tl	
S Vanadium V	
S Zinc Zn	

Quality control Report N	Number(s): 9801/4B	
Reviewed by: ^~	Date:	RPT:Report02

Time: 11:32:54

S

Manganese

Reviewed by: nv

Mn

ACCREDITED LABORATORIES, INC.

Time: 11:33:

INORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98 Client: L M S Field#: 05(16-17) Case#: 7987 Sample#: 9800157 Client Sample Description: Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other CXOOL F QC#: Test: TAL Test Description: Total Analyte List (TAL) Project Name: LAKA RI/FS Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O+h Sample Comments: LABORATORY CHRONICLE By Method: PREPARATION ANALYSIS MTX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT REF S Aluminum A1 Antimony S Sb S Arsenic As Barium S Ba Beryllium S Be Cadmium S Cd Calcium S Ca Chromium S crS Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg

				**********	***************************************			
Qua	lity control Report	t Number	r(s):_	980	114£	3		

Date:_ 7/16 RPT:Report02

23

ACCREDITED LABORATORIES, INC. Time: 11:33:09 INORGANIC ANALYSIS LABORATORY CHRONICLE

21

Te: Pro Mt: Sai	st: TAL st Descripti pject Name: k:A=Aqueous: nple Comment	L A K S=Soil s:	A RI:0=0il:	/ F K=Sol	S	llters:P	BORATO	RY CHRON	:G=Slud	-
MTX	Method:	SYM	RESULT		UNITS	PREPAR ====== DATE		A. ====== DATE	NALYSIS ===== INIT	: ==== REF
=== S	Morgury	.====== u~	ALIES COLOR ALIES CALLE	====			SEED Mode Street was also seen		=====	
S	Mercury Nickel	Hg Ni		***************************************	<u> </u>	1/14/98	D.h.	- 2/3/98	W	13
s	Potassium	K	***************************************			71 1/10		1	Ì	- <u></u>
s	Selenium	Se			-	1				-
s	Silver	Ag						2/4/48	W	833
s	Sodium	Na						2/3/98		833
s	Thallium	Tl								
s	Vanadium	v						7/3/48	M	83
s	Zinc	Zn								(

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

·		<u>-</u>		
Client: L M S	_	Onorationa	Test Date Du	ie: 01/20/98
Field#: 05(16-17) Client Sample Description:	Case#:	7987	Case Date Du Sample#: 98	101/19/98 300157
Date Sampled: 01/06/98 Date	Received:	01/07/98	Report Packag	e: Other
Test: TAL	1		QC#:	980012

Reviewed by:_____

Test Description: Total Analyte List (TAL)

Project Name: L A K A R I / F S

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O }

Sample Comments:

### SYM RESULT MDL UNITS DATE INIT DATE INIT REF S Aluminum	3y 1	fethod:					PREPA	ABORATORY RATION	Al	NALYSIS	}
S Aluminum Al	XTN	ELEMENT	SYM	RESULT	MDL	UNITS			DATE	INIT	
S Arsenic As	s	Aluminum	Al				1/14/98	D.M.			
S Barium Ba S Beryllium Be S Cadmium Cd S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg	s	Antimony	Sb								
S Beryllium Be	s	Arsenic	As						3/3	m	X17-6
S Cadmium Cd S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg	s	Barium	Ва			***************************************					
S Calcium Ca	s	Beryllium	Ве			***************************************					
S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg	S	Cadmium	Cd								
S Cobalt Co	s	Calcium	Ca								
S Copper Cu	s	Chromium	Cr	**************************************							
S Copper Cu	s	Cobalt	Co								
S Lead Pb	s	Copper	Cu		·						
S Magnesium Mg	s	Iron	Fe								
	s	Lead	Pb	***************************************					7/5	<u>~~</u>	817_
S Manganese Mn	s	Magnesium	Mg								
	S	Manganese	Mn								*
	Qua	lity control	Repor	t Numbe	r(s):	980	1146	3			

Date:____

RPT:Report02

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ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:09

OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME HC 01/19

•		 •				
Client	: LMS		Test	Date	Due:	01/

Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98 Case#: 7987 Sample#: 9800157 Field#: 05(16-17)

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

QC#: 9800/7 Test: TAL

Test Description: Total Analyte List (TAL)

Project Name: L A K A R I / F S

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

MTX ===	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Нд								
s	Nickel	Ni				1/14/98	D:m -			
s	Potassium	K								
s	Selenium	Se						<i>Y/Y</i>	M	81-
s	Silver	Ag								
s	Sodium	Na	***							
s	Thallium	Tl	·					2/b	M	817
s	Vanadium	V								
s	Zinc	Zn								

Quality control Report	Number(s): 980/14B	
Reviewed by:	Date:	RPT:Report02

Da	ce: 01/0//						RY CHRON		Time:	11:33:
HC 0	1/19 OTHE	R=NY-ASP	A CLP	METH	OD: VO	95-1, C	n 335.2	7 DAY	HOLD 1	IME
Fic Cl:	ient: L M : eld#: 05(1 ient Sampl te Sampled	6-17) e Descri	ption:		ase#:	7987	ons Case. Samp	le#: 9	Oue: 01 9800157	/19/9
Te: Te: Pro Mt:	st: TAL st Descrip oject Name x:A=Aqueou mple Comme	tion: To : L A K s:S=Soil	tal Ana A R I	lyte / F	List (1 S	TAL) .lters:P	=Potable	QC#:	: 98001	7
Ву І	Method:					LA PREPAR	BORATORY ATION		ICLE NALYSIS	
MTX	ELEMENT		RESULT		UNITS	DATE		DATE		REF
s s	Mercury Nickel	Hg Ni		C		1/2/18	W. D:m -	1/24/48		
s	Potassium		***************************************			41 1/70				
s	Selenium	Se						***************************************		
s	Silver	Ag						***************************************		
s	Sodium	Na		····						
s	Thallium	т1								
s	Vanadium	v								
S	Zinc	Zn								
								,		
	A									
Qua	lity contr	ol Repor	t Numbe	r(s):	980	114B				
Revi	ewed by:	M			Date:_	2/10		1	RPT:Rep	ort02

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ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:09

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client: L M S

Test Date Due: 01/20/98
Operations Case Date Due: 01/19/98

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

Test: TAL QC#: 98001}

Test Description: Total Analyte List (TAL)

Project Name: LAKA RI/FS

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

-	Method:					======				====
MTX ===	ELEMENT	SYM =====	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Aluminum	Al	2011-11-11-11-1			1/14/98	D-m -	2/3/98	\mathcal{M}	<u> 3</u> 3
S	Antimony	Sb			-					1
S	Arsenic	As								
s	Barium	Ва						2/3/98	~~	<u> 833</u>
s	Beryllium	Be								\dashv
S	Cadmium	Cd								+
S	Calcium	Ca								+
s	Chromium	cr								1
S	Cobalt	Co			*					
S	Copper	Cu	***************************************							1
s	Iron	Fe						3/4/48		\$ 33
S	Lead	Pb						i		
s	Magnesium	Mg						7/3/48		13
S	Manganese	Mn								

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:__3

HC 0	1/19	OTHER=	NY-ASP	A CLP	METH	OD: VO	95-1,	Cn 33	5.2	7 DAY	HOLD 7	PIME
Fic Cl:	eld#: ient 8	L M S 06(10- Sample npled:	Descri	ption: 98 Date		ase#:	7987	ions	Case Samp	Date le#:	Due: 01 Due: 01 9800158 age: Ot	1 /1 9/98
Tes Pro Mt	oject x:A=Aq	scripti Name:	L A K . S=Soil	tal Ana A R I :O=Oil:1	/ F	S		P=Pot	able	QC# Water		lge: X=0
Ву 1	Method	1 :					L. PREPA	ABORA RATIO	TORY N	CHRON A	ICLE NALYSIS	;
MTX		EMENT	SYM	RESULT		UNITS	DATE	INI	T	DATE	INIT	REF
s	Mercu	ıry	Hg									
s	Nicke	e 1	Ni				1/14/98	D.p.	<u>1 ·</u>	7/3/48	_W	833-4
s	Potas	ssium	K						······································			
s	Seler	nium	Se							······································		
s	Silve	er	Ag							2/4/48	\mathcal{M}	333-21
s	Sodiv	ım	Na			****				2/3/98		833-20
s	Thall	Lium	Tl							,		
S	Vanad	lium	V							23 98	\mathcal{M}	B33-20
s	Zinc		Zn				1_	\perp				
	···											
Qua	lity o	control	Repor	t Numbe	r(s):	980	1145	3				
Revi	ewed b	oy:				Date:					RPT:Rep	ort02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:09

Sample#: 9800158

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Case#:

 •	-			1
Client: L M S	 Operations		01/20/	

Field#: 06(10-11) Client Sample Description:

7987

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other QC#: 980012

Test: TAL Test Description: Total Analyte List (TAL)

Project Name: L A K A R I / F S
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

S All S And S Ard S Bas S Bes	uminum timony senic rium ryllium	Al Sb As Ba	***************************************			1/14/98	D-M		N1~	
S Ar S Ba	senic rium	A s Ba						3/3	N1~	(1)
S Ba	rium	Ва				- 1		9/3	NIM	é
S Be	,								1 · v	XIT
	ryllium				-					
S Ca		Be	-							
	dmium	Cd								
S Ca	lcium	Ca	41111							
S Ch	romium	Cr						-		.,,
S Co	balt	Co								
S Co	pper	Cu	4							
s Ir	on	Fe				_				70.
S Le	ad	Pb			***************************************			9/5	M	81.
S Ma	gnesium	Mg		***************************************	***************************************			-		
S Ma	nganese	Mn								

Date: 01/07/98 ACCREDITED LABORATORIES, INC. Time: 11:33:

			NORGANIC AND	TILOTO 1	LABORATO	JRI CHRO	MICTE		
HC 0	1/19 OTHER=	-NY-ASP	A CLP METI	OD: VO	95-1,	Cn 335.2	7 DAY	HOLD T	IME
Fi	ient: L M S eld#: 06(10- ient Sample			Case#:	Operat: 7987	ions Cas	t Date e Date ple#:	Due: 01 Due: 01 9800158	/19/98
Da	te Sampled:	01/06/	98 Date Rec	ceived:	01/07/9	98 Repo	rt Pack	age: Ot	her
	st: TAL	iana Ma	tal lanalusta	riat /r	DAT \		QC#	: 9801	17
Pro Mt	oject Name:	L A K S=Soil	tal Analyte A RI/F :O=Oil:K=Sol	S		?=Potabl	e Water	:G=Slud	ge:X=0
By 1	Method:					ABORATOR'		ICLE NALYSIS	
MTX	ELEMENT	SYM	RESULT MDL	UNITS	DATE	INIT	DATE	ТІИІ	REF
s	Mercury	Нg							
s	Nickel	Ni			1/14/98	D.M.			
s	Potassium	ĸ			1				
S	Selenium	Se					3/8	m	817-3
S	Silver	Ag							
S	Sodium	Na	- 18871 - 1187						
S	Thallium	Tl					3/1	m	817-
S	Vanadium	V						easter weeklesser	
S	Zinc	Zn					AL		-
								`	
-									
		l Repor	ct Number(s)		9114 <u>£</u>	5			
Revi	ewed by:			Date:_			_	RPT: Rep	ort02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:2

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

1	Client: L M S		0 -		Due: 01/20/98
	Field#: 06(10-11)	Case#:	7987	Sample#:	Due: 01/19/98 9800158
	Client Sample Description: Date Sampled: 01/06/98 Date	Received:	01/07/98	Report Pacl	kage: Other

Test: TAL QC#: 180013

Test Description: Total Analyte List (TAL)

Project Name: L A K A R I / F S Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

Ву І	Method:						RATION	CHRONICLE ANALYSIS		
MTX ===	ELEMENT	SYM	RESULT	MDL ====	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Нд			***************************************	1/24/43	M	1/25/18	_W	839-K
s	Nickel	Ni				1/14/98	D.M.	•		
S	Potassium	K			***************************************					
S	Selenium	Se								
S	Silver	Ag			-					
S	Sodium	Na								
s	Thallium	Tl								
s	Vanadium	v	***************************************					***************************************		
s	Zinc	Zn								

***************************************		-						***************************************		
								***************************************	·	
				······				***************************************		-
***************************************								***************************************		-
Quality	control	Report	Number	(s):	980,	<u> 1146</u>	<u> </u>			
Reviewed	hv:	M		Da	te:	2/10		1	RPT:Repo	ort02
1.5.1.6.0.00	~1	· •				·		•	T T TIOP	

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:_1

C O	1/19	OTHER=1	YY-ASP	A C	LP	METH	OD: VC	95-	1,	Cn :	335.	2 7	DAY	HOLD	TIME
C1	ient:	L M S						One	rat:	ion	Te	st Da	ate	Due:	01/20/9 01/19/9
		06(20-2			_	С	ase#:	79	87		San	mple	#:	98001	
Dat	ient S te Sar	Sample Impled: (Descri	98 D	: ate	e Rec	eived:	01/	07/9	98	Repo	ort 1	Pack	age:	Other
Tes	st: T/	AL											QC#	: 9	X6017
Pro	piect	scription Name: I	JAK.	A R	Ι	7 F	S	·							-
Mt	x:A=Ac	queous: Somments	S=Soil	:0=0i	1:1	(=Sol	id:F=F	ilte	rs:I	P=P	otab:	le Wa	ater	:G=Sl	udge:X=
									1.7	ABOI	RATO	RV CI	HRON	ICLE	
3y 1	Method	1:						PR	EPAI	RAT:				NALYS	IS
ATX		EMENT	SYM	RESU	LT ==	MDL	UNITS	DA ===	TE ===	II	TIV		ATE	INI'	
s	Alumi	inum	Al					1/15	198	2	.m	- 2/1	198	\mathcal{N}	833-20
s	Antin	nony	Sb										!	((
s	Arser	nic	As												
S	Bariu	ım	Ba									7/3	198	\mathcal{N}	933-2
s	Beryl	llium	Ве										(
s	Cadmi	ium	Cd					-							
s	Calci	ium	Ca						<u> </u>						
s	Chron	nium	Cr						<u> </u>						
s	Coba]	lt	Co						<u> </u>	4					
s	Coppe	er	Cu					. av-a	_				<u>ا</u>		
S	Iron		Fe				wa-		_	_		2/	1/98		<u> 333-</u> 2
S	Lead		Pb												
s	Magne	esium	Mg	·						_	-	7/3	148	_W	833-2
s	Manga	anese	Mn							\perp			1		
															
)ua	lity o	control	Repor	t Num	bei	(s):	98	0//	48	2					
≥vi∘	ewed l	oy:	N			_	Date:	7	10			_		RPT:R	eport02

ACCREDITED LABORATORIES, INC. Time: 11:33:38 INORGANIC ANALYSIS LABORATORY CHRONICLE

Tes Pro Mtx San	st: TAL st Descripti oject Name: c:A=Aqueous: nple Comment	L A K S=Soil	A RI/F	S	ilters:		QC#: e Water:	:G=Slud	lge:X=
_			DEGULE MOI		======		======	NALYSIS	=====
MTX ===	ELEMENT	SYM	RESULT MDL	UNITS	DATE ======	INIT =====	DATE =====	INIT	REF
s	Mercury	Нg				-	***************************************		
s	Nickel	Ni			14/78	Dim-	2/3/99	_W	8}}-
s	Potassium	K							
s	Selenium	Se						***************************************	
s	Silver	Ag					2/4/48	\mathcal{M}	833-2
s	Sodium	Na					43 48		<u> {3}-</u>
s	Thallium	Tl							
s	Vanadium	V	•	_			13/98	<u> </u>	833-20
s	Zinc	Zn	***************************************						

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:__:

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client: L M S Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98

Case#: Field#: 06(20-22) 7987 Sample#: 9800159

Client Sample Description:

Reviewed by:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

QC#: 980017 Test: TAL

Test Description: Total Analyte List (TAL)

Project Name: LAKA RI/FS

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O)

Sample Comments:

M	fethod:					PREPAR			VALYSIS	
ΓX ==	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Aluminum	Al				1/14/98	D.M -			
s	Antimony	Sb								
s	Arsenic	As						3/3	M	<u>۲۱۲</u>
s	Barium	Ba								
s	Beryllium	Be								
s	Cadmium	Cd								
s	Calcium	Ca								
s	Chromium	Cr	<u> </u>					···		
s	Cobalt	Co		A	,					
s	Copper	Cu								
S	Iron	Fe								
s	Lead	Pb						9/1	m	KI 7
s	Magnesium	Mg								
s	Manganese	Mn								

RPT:Report02 Date: ____

Reviewed by:

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:38

Mt:	st Descripti oject Name: x:A=Aqueous: mple Comment	L A K S=Soil	A RI	/ F	S	ilters:	P=Potabl			ge:X=
Ву 1	Method:						RATION		NALYSIS	====:
MTX ===	ELEMENT	SYM	RESULT	MDL ====	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Hg								
s	Nickel	Ni				1/14/28	D.m.			· ·
s	Potassium	K	<u></u>							
s	Selenium	Se						3/8	pr	817
s	Silver	Ag							***************************************	
s	Sodium	Na		***************************************				***************************************		
s	Thallium	Tl						<u> </u>	Nr	817
s	Vanadium	V				<u> </u>				
s	Zinc	Zn						***************************************		

ACCREDITED LABORATORIES, INC.

Da	te: 0	1/07/98	I	ACO NORG AN IO	CREDI	TED LAI LYSIS I	BORATOR LABORAT	IES, INC.	NICLE	Time:	11:33:
HC 0	1/19	OTHER=N	IY-ASP	A CLP	METH	OD: VO	95-1,	Cn 335.2	7 DAY	HOLD 1	IME
Fie Cl:	eld#: ient 8	L M S 06(20-2 Sample D	escri	ption:		ase#:	7987	ions Case	ole#: 9	Due: 01 9800159	L/19/98) •••
Tes Tes Pro Mt	st: TA st Des oject k:A=A	AL scriptio Name: L	on: To A K =Soil	tal Anai A R I	lyte : / F :	List (1 S	TAL)	96 Repor P=Potable	QC#	: <u>98001</u>	3
By 1	Method	i:						ABORATORY RATION		CLE NALYSIS	;
MTX		EMENT	SYM	RESULT		UNITS	DATE		DATE	INIT	REF
=== S	Mercu	====== ary	Hg					₩	125/98	4	<u> 939-1</u>
S	Nicke	e 1	Ni				414/78	Dim-			·
S	Potas	ssium	K				+				·
S	Seler	nium	Se				+			-	
S	Silve	er	Ag				1				· ~
S	Sodi	ım	Na				+				· —— _
S	Thall	lium	Tl				+				
S	Vanad	lium	V				 	\rightarrow			·
S	Zinc		Zn				1				
											-
											475

Reviewed by: _____

ACCREDITED LABORATORIES, INC.

Time: 11:33:38

INORGANIC ANALYSIS LABORATORY CHRONICLE

OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME HC 01/19

Client: L M S

Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98

Case#: Field#: 07(10-11) 7987 Sample#: 9800160

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

QC#: 9X0017 Test: TAL

Test Description: Total Analyte List (TAL)

Project Name: LAKA RI/FS

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

_	Method:					PREPAR				=====
MTX ===	ELEMENT	SYM =====	RESULT	MDL	UNITS	DATE	INIT ======	DATE	INIT	REF
s	Aluminum	Al	***************************************			1/14/98	D.m.	2/3/48		833-8
s	Antimony	Sb	THE CO. LEWIS CO.			<u> </u>				
s	Arsenic	As							1-1111111111111111111111111111111111111	
S	Barium	Ва			***************************************			23 98	sw/	B33-
s	Beryllium	Вe								
s	Cadmium	Cd	****	******						
s	Calcium	Ca			***************************************					
s	Chromium	Cr								
s	Cobalt	Co								
s	Copper	Cu			P*************************************					
S	Iron	Fe			***************************************			2/4/18		833-
s	Lead	Pb			w					
S	Magnesium	Mg	***************************************		,			7/3/48	<u> W</u>	833
s	Manganese	Mn								

Reviewed by:_____

Fie Cl: Dat	ient: L M S eld#: 07(10- ient Sample ce Sampled: st: TAL st Descripti	Descri 01/06/ on: To	98 Date	e Rec lyte	List (1	7987 01/07/9	ons Case Samp	Date I le#: 9	9800160 age: Ot	/19/9
Mt: Sar	oject Name: c:A=Aqueous: nple Comment Method:	S=Soil	A R I :O=Oil:1	/ F K=Sol	S id:F=Fi 	LA PREPAF	BORATORY	CHRON I	ICLE NALYSIS	_
MTX	ELEMENT	SYM	RESULT		UNITS		INIT	DATE	INIT	REF
\$ \$ \$ \$ \$ \$ \$ \$ \$	Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	Hg Ni K Se Ag Na T1				1/14/98	D.m.	2/3/48 2/3/48 2/3/48	W W W W W W W W W W	\$33-2 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
S		Zn								1

Date:____

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:38

OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME HC 01/19

Client: L M S

Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98

Field#: 07(10-11)

Case#:

Sample#: 9800160

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

QC#: 98001V

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I / F S

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

S Aluminum Al	Aluminum Al	Aluminum Antimony Arsenic Barium	Al Sb As		====		=====		DATE	INIT	REF ====
S Antimony Sb S Arsenic As S Barium Ba S Beryllium Be S Cadmium Cd S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Arsenic As 1/3	Antimony Sb Arsenic As Barium Ba Beryllium Be Cadmium Cd Calcium Ca Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg	Antimony Arsenic Barium	Sb As		**************************************		1/14/08	Ω L_{α}			
S Antimony Sb S Arsenic As S Barium Ba S Beryllium Be S Cadmium Cd S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb J/2 WV	Antimony Sb Arsenic As Barium Ba Beryllium Be Cadmium Cd Calcium Ca Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg	Arsenic Barium	As				<i>-4-11,70</i> .	wim.			
S Barium Ba	Barium Ba Beryllium Be Cadmium Cd Calcium Ca Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg	Barium					<u></u>		***************************************		
S Beryllium Be S Cadmium Cd S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb	Beryllium Be Cadmium Cd Calcium Ca Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg								1/3	w	<u> </u>
S Cadmium Cd S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb	Cadmium Cd Calcium Ca Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg	Rervllium	Ba								
S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb	Calcium Ca Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg	~~~ I ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Ве							***************************************	
S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb	Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg	Cadmium	Cd								
S Cobalt Co S Copper Cu S Iron Fe S Lead Pb	Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg	Calcium	Ca								
S Copper Cu S Iron Fe S Lead Pb	Copper Cu Iron Fe Lead Pb Magnesium Mg	Chromium	Cr								-
S Iron Fe	Iron Fe	Cobalt	Co	***************************************							
S Lead Pb	Lead Pb	Copper	Cu				1				
1	Magnesium Mg	Iron	Fe		MUMMUU	•					
		Lead	Pb						2/7	fr	817-
S Magnesium Mg	Manganese Mn	Magnesium	Mg								
S Manganese Mn		Manganese	Mn								,
		ity control	Repor	t Numbe	r(s):	980	114B				
	. – . – . –		Chromium Cobalt Copper Iron Lead Magnesium Manganese	Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg Manganese Mn	Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg Manganese Mn	Chromium Cr Cobalt Co Copper Cu Cron Fe Cead Pb Magnesium Mg Manganese Mn	Chromium Cr Cobalt Co Copper Cu Cron Fe Cead Pb Magnesium Mg Manganese Mn	Chromium Cr Cobalt Co Copper Cu Cron Fe Lead Pb Magnesium Mg	Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg Manganese Mn	Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg Manganese Mn	Chromium Cr Cobalt Co Copper Cu Iron Fe Lead Pb Magnesium Mg Manganese Mn

ACCREDITED LABORATORIES, INC.

Fie Cl: Dat Tes	ient: L M S eld#: 07(10- ient Sample te Sampled: st: TAL st Descripti	Descri 01/06/ on: To	98 Date	e Rec lyte	List (1	7987 01/07 / 9	ons Case. Samp	Date le#: t Pack	9800160	/19/9 her
Mt: Sar	<pre>%:A=Aqueous: nple Comment fethod:</pre>	S=Soil	:0=0i1:	K=Sol	id:F=Fi	LA PREPAR	BORATORY	CHRON		
MTX	ELEMENT	SYM			UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Hg								
s	Nickel	Ni	***************************************			1/14/98	<u> </u>			
s	Potassium	K								
s	Selenium	Se						3/8	m	817-
s	Silver	Ag			•					
s	Sodium	Na								
s	Thallium	Tl						3/6	N	47-
S	Vanadium	V							<u></u>	
s	Zinc	Zn								

Reviewed by: _____ Date: _____

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:33:53

HC 01/19	OTHER=NY-ASP A	CLP METHOD:	VO 95-1,	Cn 335.2	7	DAY	HOLD	TIME
•								

Client: L M S	Test Date	e Due: 01/20/98

Operations Case Date Due: 01/19/98 Case#: 7987 Field#: 07(10-11) Sample#: 9800160

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

980017 QC#: Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I / F S

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Ву 1	Method:						ABORATORY RATION		CLE NALYSIS	
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Hg				124 48	W	1/29/98	N	839-10
s	Nickel	Ni	***************************************			1/14/98	D.m.			
s	Potassium	K				1				
s	Selenium	Se	***************************************						-	
s	Silver	Ag		Marie Control Control	***************************************					
s	Sodium	Na		***************************************					-	
s	Thallium	Tl								***************************************
s	V an adium	v						***************************************		
s	Zinc	Zn								

		,
,		
١	Quality control Report Number(s): 9801/48	
	Reviewed by: Date:	RPT:Report02
_		

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:34: 0

Tes Tes Pro	eld#: 07(14- ient Sample te Sampled: st: TAL st Descripti oject Name: k:A=Aqueous: mple Comment	Descri 01/06/ on: To L A K S=Soil	98 Date tal Ana: A R I	e Rec lyte / F	List (1 S	ral)	8 Repo	Packa QC#:	groo	her
ву 1	Method:					LA PREPAR		RY CHRONI	CLE NALYSIS	;
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
	Aluminum	A1				1/14/98	D.m.	1.1	N	83-20
s	Antimony	Sb				-/				1
s	Arsenic	As								
s	Barium	Ва						2/3/98	M	833-20
s	Beryllium	Be								
s	Cadmium	C d			WHI WHITE					
s	Calcium	Ca								
s	Chromium	Cr								
s	Cobalt	Co		-						
s	Copper	Cu								
s	Iron	Fe						4458		833-2
s	Lead	Pb								
S	Magnesium	Mg	M					2/1/48	W	833-60
s	Manganese	Mn								
	lity control	Repor	t Numbe			== 01/4 <u>f</u> 3/k			RPT: Rep	

ACCREDITED LABORATORIES, INC. Time: 11:34:08 INORGANIC ANALYSIS LABORATORY CHRONICLE

Te: Te: Pre	ient Sample te Sampled: st: TAL st Descripti oject Name: x:A=Aqueous:	01/06/ on: To L A K	98 Date	lyte / F	List (1 S	PAL)	_	QC#	•	
Sai	mple Comment	s:					BORATOR	Y CHRON		
XTM	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
=== S	Mercury	Hg								
S	Nickel	Ni				1/14/98	Dim.	2/3/98	M	933-
s	Potassium	K								1
s	Selenium	Se				4				
s	Silver	Ag		***************************************		1		2/4/4	W	833-
s	Sodium	Na			,			2/3/48		833-
S	Thallium	Tl	MATERIAL TO THE PARTY OF THE PA	***************************************	****			· 1		-
S	Vanadium	V						2/3/58	in	833-
S	Zinc	Zn								

HC 0	1/19 OTHER=	NY-ASP	A CLP	METH	od: Vo	95-1,	Cn 335.2	7 DAY	HOLD 1	IME
C 1:	ient: L M S		***************************************			0	Test	Date 1	Due: 01	/20/98
	eld#: 07(14-			С	ase#:	7987	ions Case Samp		9800161	
Dat	ient Sample te Sampled:	01/06/	ption: 98 Date	e Rec	eived:	01/07/9	8 Repor	t Pack	age: Ot	her
	st: TAL	_			_ • • •			QC#	: <u>9800</u>	17
Pro Mt	st Descripti pject Name: k:A=Aqueous: mple Comment	L A K . S=Soil	A RI	/ F	s ·	•	P=Potable	Water	:G=Slud	lge:X=0
ву 1	Method:					PREPAR	ABORATORY RATION		ICLE NALYSIS	
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
 S	Aluminum	A1		****		114/28	Dh.			
s	Antimony	Sb				11-11-18	1		•	
S	Arsenic							9/3	W	<u> </u>
S	Barium	As							<u> </u>	
_		Ba								
S	Beryllium	Be								
S	Cadmium	Cd								
S	Calcium	Ca								
S	Chromium	Cr		*******************						
S	Cobalt	Co			···		-			
s	Copper	Cu								
S	Iron	Fe						3/7		(//
s	Lead	Pb						<u> 47</u>		<u> </u>
s	Magnesium	M g							www.commercial	
s	Manganese	Mn								

Quality control Report Number(s): 980/148

Date:____ Reviewed by:_____

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:34:08

Tes	st: TAL				erveu.	01/0//3	8 Repor		-	
Mt:	st: TAL st Descripti oject Name: x:A=Aqueous: mple Comment	L A K . S=Soil	A RI	/ F	S)=Potable	_	: <u>980</u> :G=Slud	
By I	Method:					LA PREPAR	ABORATORY		ICLE NALYSIS	
MTX ===	ELEMENT	SYM	RESULT	MDL ====	UNITS	DATE	INIT	DATE	INIT	REI
s	Mercury	Hg				***************************************				
s	Nickel	Ni			***************************************	1/14/98	Dim.	***************************************		
s	Potassium	K				1				· <u></u>
s	Selenium	Se			•			7/8		רוצ
s	Silver	Ag		V		1		***************************************		
s	Sodium	Na				<u> </u>			***************************************	
s	Thallium	Tl						3/6	M	81
s	Vanadium	V			***************************************			A-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		
						1	1			

-							
•					***************************************		

ì	Quality control Re	port Number(s):	9801141	3		,	
	Reviewed by:		Date:		F	RPT:Repo	ort02

Date: 01/07/98 ACCREDITED LABORATORIES, INC. Time: 11:34:

			I	NORGANI	C ANA	LYSIS I	ABORATO	DRY CHRON	ICLE		
C 0	1/19	OTHER=	NY-ASP	A CLP	METH	od: vo	95-1, (Cn 335.2	7 DAY	HOLD T	IME
Fi Cl	eld#: ient {	L M S 07(14-: Sample I	Descri	ption:		ase#:	7987	ions Case Samp	Date le#:	9800161	/19/9
Da	te Sar	npled:	01/06/	98 Date	e Rec	eived:	01/07/9	8 Repor		-	
	st: TX		on: To	tal Ana	lvte	List (1	'AL.)		QC#	: <u>9xm</u> 1	7
Pr Mt	oject x:A=Aq	Name: 1	L A K Z S=Soil	ARI	7 F	S	•	P=Potable	Water	:G=Slud	ge:X=
Ву	Method	i:			<u> </u>	····	LA PREPAR		A	ICLE NALYSIS	
MTX		EMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
s	Mercu	ıry	Нд				1/24/58	M	1/14/48		
S	Nicke		Ni				1/14/98	WM.		<u> </u>	
S	Potas	ssium	K	-			+-				
S	Seler	nium	Se	***************************************			+				
S	Silve	er	Ag		**************************************		1				
S	Sodi	m	Na								
s	Thal	lium	Tl								
s	Vanad	lium	V								
s	Zinc		Zn				<u> </u>				
							•				
							·		own		
Qua	lity	control	Repor	t Numbe	r(s):	980	1148	7			
Revi	ewed 1	by:	Ni			Date:_	2/10			RPT:Rep	ort02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:34:08

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIM	HC	01/19	OTHER=NY-ASP	A	CLP	METHOD:	VO	95-1,	Cn	335.2	7	DAY	HOLD	TIM	E
--	----	-------	--------------	---	-----	---------	----	-------	----	-------	---	-----	------	-----	---

Client: L M S

Test Date Due: 01/20/98

Operations Case Date Due: 01/19/98

Case#: 7987 Sample#: 9800162 Field#: 07(18-20)

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

QC#: Test: TAL

Test Description: Total Analyte List (TAL)

Project Name: LAKA RI/FS

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

S Alumi S Antin S Arser S Bariu S Beryl S Cadmi S Calci S Chron S Cobal	mony S nic A um B llium B ium C	Al				1/14/98	D.M -	2/3/58		<u> </u>
S Arser S Bariu S Beryl S Cadmi S Calci S Chrom	nic A um B llium B ium C	As Ba						12/4 8		
S Barius S Beryl S Cadmi S Calci S Chron	um B llium B ium C	Ba Be			WWW.			42/5 8		
S Beryl S Cadmi S Calci S Chron	llium B ium C	Be :	W. 380		-			42/92	Λ	
S Cadmi S Calci S Chron	ium C	•					1	77110	<u> </u>	£33-
S Calci		ca .								
S Chron	a						<u>.</u>			
	ium C	Ca .								
S Cobal	mium C	er .								.
	lt c	co .								
S Coppe	er C	Cu .								
S Iron	F	re .		~~~				2/4/98		<u> 833-</u>
S Lead	P	b d		***************************************	-					-
S Magne	esium M	ſg			A0 **			2/3/48	W	8}3-
S Manga	anese M	ſn								

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:34: 2

Fic Cl:	ient: L M S eld#: 07(18 ient Sample te Sampled:	Descri	ption:		ase#:	7987	ions Cas Sam		Oue: 01 9800162	/19/98
Tes Tes Pro Mts	st: TAL st Descript oject Name: x:A=Aqueous mple Commen	ion: To L A K :S=Soil	tal Ana A R I	lyte / F	List ('	ΓAL) ilters:l	P=Potabl	QC#:	:	
	Method:	CMM	D D C L L M	WDT		======	RATION		VALYSIS	
MTX ===	ELEMENT	SYM =====	RESULT	MDL ====	UNITS	DATE	INIT	DATE	INIT	REF -
s	Mercury	Нg								
s	Nickel	Ni				1/14/98	Dim-	2/3/18	.W	133-w
S	Potassium	K								
S	Selenium	Se								
S	Silver	Ag						2 4 48	M	813-21
S	Sodium	Na						2/3/53		833- 2 0
S	Thallium	Tl	•							
s	Vanadium	V						43/48	<u></u>	833-20
S	Zinc	Zn		-						
	lity contro									
Revi	ewed by:		•		Date:_			. I	RPT:Rep	ort02 _
									49	

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client: L M S Test Date Due: 01/20/98

Operations Case Date Due: 01/19/98 Sample#: 9800162

Case#: Field#: 07(18-20) 7987 Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

QC#: GXDE/2 Test: TAL

Test Description: Total Analyte List (TAL)

Project Name: LAKA RI/FS

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Ot)

Sample Comments:

MTX	ELEMENT	SYM	RESULT	MDI.	UNITS	DATE	TNIT	DATE	INIT	EEF
===		======	======		=====	=====			=====	
s	Aluminum	Al				1/14/98	D.M -			***************************************
s	Antimony	Sb	<u></u>	***************************************		<u> </u>				
s	Arsenic	As						9\3	<u></u>	817-
s	Barium	Ва	***************************************					···		
s	Beryllium	Ве			*					
s	Cadmium	Cd		***************************************						
s	Calcium	Ca			-					***************************************
s	Chromium	Cr								
s	Cobalt	Co								
s	Copper	Cu					,			*
s	Iron	Fe	****		-					
s	Lead	Pb						3/2	<u>~~</u>	817
s	Magnesium	Mg								
s	Manganese	Mn								
								*		
	***************************************						**************************************	·		

Time: 11:34:08

Time: 11:34:__:

Date: 01/07/98 ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE HC 01/19 CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME OTHER=NY-ASP A Client: L M S Test Date Due: 01/20/98 Operations Case Date Due: 01/19/98 Case#: Field#: 07(18-20) 7987 Sample#: 9800162 Client Sample Description: Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other STOOKE Test: TAL QC#: Test Description: Total Analyte List (TAL) Project Name: L A K A R I / F S
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=C 1 Sample Comments: LABORATORY CHRONICLE By Method: PREPARATION ANALYSIS SYM RESULT MDL UNITS DATE DATE INIT REF MTX ELEMENT INIT Mercury S Hq Nickel Ni S S Potassium K S Selenium Se Silver S Ag Sodium S Na Thallium Tl S S Vanadium S Zinc Zn Quality control Report Number(s): 980/14 8

Date:

Reviewed by:

ACCREDITED LABORATORIES, INC.

Time: 11:34:2:

	•	=NY-ASP	A CLP	METH	OD: VO	95-1,					
Cl	ient: L M S					Operati	ions	Test Case	Date 1	Due: 01 Due: 01	./20/ ./19/
	eld#: 07(18- ient Sample		ntion:	C	ase#:	7987		Samp	le#:	9800162	!
Da	te Sampled:	01/06/	98 Dat	e Rec	eived:	01/07/9	98 R	epor	t Packa	age: Ot	her
	st: TAL st Descripti	ion. To	tal Ana	lvte	Liet (1	የልፒ.ነ			QC#	98001	<u> </u>
Pr	oject Name:	LAK.	A RI	/ F	S)_D_4	a la 1 a	Y.7 A		
Sai	x:A=Aqueous: mple Comment	:s=5011	:0-011:	V-201	Iu.F-F	ricers:	-POL	ante	water	G=SIUO	.ge: x
									CHRON		
Ву 1	Method:					PREPAR				NALYSIS	
MTX ===	ELEMENT	SYM	RESULT		UNITS	DATE			DATE	INIT	REF
s	Mercury	Hg				1/24/48	_M	2	1/4/48	\mathcal{N}	837
S	Nickel	Ni				1/14/98	D, A	1-			
s	Potassium	K	***************************************			-				***************************************	
S	Selenium	Se									
S	Silver	Ag		-	***************************************		+				
S	Sodium	Na					-				
S	Thallium	Tl	-								
S	Vanadium	V	·							*****	
S	Zinc	Zn			***************************************					***************************************	***************************************
	lity control										
					() () -		_				

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ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:34:)

Fic Cl Da ² Te: Pro Mt:	ient: L M S eld#: 07(22; ient Sample te Sampled: st: TAL st Descript; oject Name: x:A=Aqueous mple Commen	Descri 01/06/ ion: To L A K :S=Soil	98 Date tal Anal	Rec yte	List (1	7987 01/07/9 FAL)	ons Cas Sam 08 Repo	rt Packa QC#:	0ue: 01 0800163 uge: 0t	19/98 ther
	Method:					LA PREPAR	RATION	Y CHRONI AN	CLE IALYSIS	
MTX ===	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF =
s	Aluminum	Al				1/14/98	D.M.	7/3/59	M	833-20
s	Antimony	Sb			•••					
s	Arsenic	As								
S	Barium	Ва						2/1/48	W	833-20
s	Beryllium	Ве								
s	Cadmium	Cd								
S	Calcium	Ca								
S	Chromium	Cr								
s	Cobalt	Co								
S	Copper	Cu						4		
S	Iron	Fe			***************************************			2/4/98		333-21
s	Lead	Pb								
S	Magnesium	Mg						23/48	M_	833-20
S	Manganese	Mn			-					
	lity contro	l Repor			98 Date:		В		RPT:Rep	oort02

ACCREDITED LABORATORIES, INC. Time: 11:34:37 INORGANIC ANALYSIS LABORATORY CHRONICLE

54

S Mercury Hg		te Sampled:	01/06/	ption: 98 Date	e Rec	eived:	01/07/9	8 Repo	rt Packa	ige: Ot	her
LABORATORY CHRONICLE PREPARATION ANALYSIS MIX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT RE S Mercury Hg S Nickel Ni	Tes Pro Mta	st Descripti oject Name: k:A=Aqueous:	L A K S=Soil	A RI	/ F	S		P=Potable		•	lge:X=
S Mercury Hg S Nickel Ni		-									.
S Nickel Ni	XTN ===										REF
S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium T1	s	Mercury	Нg								
S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium T1	s	Nickel	Ni				1/14/98	D:M-	2/3/48	_M	833
S Silver Ag	s	Potassium	K				4				
S Sodium Na L394 8. S Thallium Tl	s	Selenium	Se								• • • • • • • • • • • • • • • • • • •
S Thallium Tl	s	Silver	Ag						2/4/9	M	833-7
	S	Sodium	Na	***************************************	******	·			2/3/98		833-
S Vanadium V	S	Thallium	Tl								
	S	Vanadium	V			· · · · · · · · · · · · · · · · · · ·			2/3/48	_W_	833-6
S Zinc Zn	s	Zinc	Zn								
				-							

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:34:

Fie	ient: L M S eld#: 07(22- ient Sample		ption:	C	case#:	Operati 7987	ions Cas	e Date 1	Due: 01 Due: 01 9800163	/20/98 /19/98
Tes Tes Pro Mts	te Sampled: st: TAL st Descripti oject Name: x:A=Aqueous: mple Comment	01/06/ on: To L A K S=Soil	98 Date	lyte / F	List (T	TAL)			: <u>981</u>	0012_
ву 1	Method:						ABORATORY	Al	NALYSIS	
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Aluminum	Al				1/14/98	D.m.			
s	Antimony	Sb						1/2		
s	Arsenic	As						2/3	M	<u> </u>
S	Barium	Ba								
s	Beryllium	Be		~						
S	Cadmium	Cd								· · · · · · · · · · · · · · · · · · ·
S	Calcium	Ca							***************************************	
s	Chromium	Cr								
s	Cobalt	Co								
s	Copper	Cu								
s	Iron	Fe	***************************************	-						
s	Lead	Pb						ə/J	M	<u>- ۲۱۶</u>
s	Magnesium	Mg							~	
s	Manganese	Mn								
 Oua	lity control	Repor			98		 R			
	ewed by:			- \~/ •	Date:				RPT:Rep	—
-(C + 1	a »,								7. rep	

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:34:3

1														
	HC	01/19	other=ny-Asp	A	CLP	METHOD:	VΟ	95-1,	Cn	335.2	7	DAY	HOLD	TIME

Test Date Due: 01/20/98 Client: L M S

Operations Case Date Due: 01/19/98 7987 Field#: 07(22-24) Case#: Sample#: 9800163

Client Sample Description:

Date Sampled: 01/06/98 Date Received: 01/07/98 Report Package: Other

980012 QC#: Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I / F S
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

Ву 1	Method:					LABORATORY CHRONICLE PREPARATION ANALYSIS ===================================					
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
s	Mercury	Hg									
s	Nickel	Ni			***************************************	1/14/98	D.M-				
s	Potassium	K				1					
s	Selenium	Se						3/8		<u>817.35</u>	
s	Silver	Ag									
s	Sodium	Na									
S	Thallium	Tl						<u> 9/l</u>	M	817-34	
s	Vanadium	v									
s	Zinc	Zn									

Quality control	Report Number(s): 980/14B	
Reviewed by:	Date:	RPT:Report02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:34:

HC 0	1/19	OTHER=N	IY-ASP	A CLP	METH	oD: Vo	95-1,	Cn 335.	2 7 DAY	HOLD T	IME
	ient:	L M S	24)		c	ase#:	Operat: 7987	ions Ca	st Date se Date mple#:	Due: 01 Due: 01 9800163	/19/98
Cl: Dat	ient S	ample D pled: 0	escri	ption: 98 Date					ort Pack	age: Ot	her
Tes Pro Mtx	st Des oject : x:A=Aq	criptic	AK. S=Soil	tal Ana: A R I :O=Oil:I	lyte / F K=Sol	List (7 S id:F=Fi	TAL)	P=Potab	le Water		
Ву 1	Method	:						ABORATO RATION	RY CHRON	ICLE NALYSIS	
MTX	ELE	MENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercu	ry	Hg				1/29/98	M	1/25/98	W	835-1
s	Nicke	1	Ni				1/14/98	D.M	-		***************************************
s	Potas	sium	K								
s	Selen	ium	Se						4-14-14-14-14-14-14-14-14-14-14-14-14-14		
s	Silve	r	Ag								
s	Sodiu	m	Na								
s	Thall	ium	Tl								
s	Vanad	ium	v				<u></u>				
S	Zinc		Zn								<u> </u>
											•
					-						
			Repor	t Number		· · · · · · · · · · · · · · · · · · ·	1	<i>5</i>			
Revi	ewed b	уу:	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	V -		Date:_	2/10		MATERIA .	RPT:Rep	ort02

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:35:07

Page: 3

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800143

Client Sample Description:

Case#: 7987

Client Project Name: L A K A RI/FS Operations Case Due Date: 01/19/98

Client Field Number: 02(8-9)

Date Sampled: 01/06/98 Date Received: 01/07/98

Report Package: Other

Phases:

		m a a tr	ANALY	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS	
itx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98								
s	CN	01/20/98		0.51	my/hy.	8P1 £1110	EM	01/12 /98	IM	841-15

Reviewed By:			Date:				
Matrix: A=Aqueous:	S=Soil: O=Oil:	K=Solid:	F=Filters:	P=Potable Wate	r: G=Sludge:	X=Other:	RPT:Report06

Date:

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:35:52

Page: 9

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description: Client Project Name: L A K A

RI/FS

Client Field Number: 03(18-19)

Sample#: 9800149

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

rnase	: 5 •	ma a t	ANALY	TICAL D	ATA	SAMPL	E PREP	SAMPLE ANA	ALYSIS	
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98	dissession							***************************************
S	CN	01/20/98		0.51	m₅/ky	01/12 /98	正川	01/12/90	3-1	841-15

Reviewed	Bv:	Date:								
	4	 				***************************************				
37 1	•	 0.0-23.	0-011.	W	T-T-11+	D-Datable	T.7	C-Classes V	A & No. 10	DDM D

Date .

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:36:36

Page: 15

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

60

Client Sample Description: Client Project Name: L A K A

Client Field Number: FLFB-01

Sample#: 9800155

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Test	ANALY	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS	
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
Α	CN	01/20/98	American	0.01	male.	01/12/98	IM_	01/13/98	In 1	841-15

		Da+	
Reviewed	BV:	Date:	

RI/FS

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:36:43

Page: 16

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A

Client Field Number: 05(9-10)

Project Name: LAKA KI/r

RI/FS

Sample#: 9800156

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

Indo		mo a t	ANAL	YTICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98								
S	CN	01/20/98		0.52	<u> </u>	01/2/98	IM	01/12 /98	ZM_	841 -15

Reviewed	By:	 		Date: _				
36	3	 0-0:1.	v-c-1:4.	P-Filtona	. D-Dotable Water	C-C1d	V-0+h	DDM - D

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:36:51

Page: 17

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I / F S

Client Field Number: 05(16-17)

Sample#: 9800157

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Test	ANALYTICAL DATA			SAMPL	E PREP	SAMPLE AN		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98			***************************************			-		B1000000000000000000000000000000000000
S	CN	01/20/98		0.48	my/ky.	01/12/98	_æM_	OV12/98	IM.	841 - 15

Reviewed	Bv:	Date:	

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

RI/FS

Time: 11:36:58

Page: 18

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A

Client Field Number: 06(10-11)

Sample#: 9800158

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98 Date Received: 01/07/98

Report Package: Other

Phases:

FIIdS		Test	ANALY	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS	
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98								
S	CN	01/20/98		0.46	mylks.	01/12/98	_IM	01/12/98	- Eur	841 -15

Reviewed By:		Date:		
Matriv. A=Aqueous.	S=Soil: O=Oil: K=Solid:	F=Filters: P=Potable Water:	G=Sludge: X=Other:	RPT · Report 06

W

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:37:05

Page: 19

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800159

Client Sample Description:

Case#: 7987

Client Project Name: L A K A R I / F S

Operations Case Due Date: 01/19/98

Client Field Number: 06(20-22)

Date Sampled: 01/06/98 Date Received: 01/07/98

Report Package: Other

Phases:

		Mo at	ANALY	ANALYTICAL DATA			E PREP	SAMPLE AN	ALYSIS	
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98		MARKET .				· ·	***************************************	
s	CN	01/20/98		0.50	my/Ky	01/12-9B	ZM_	0112/98	IM	841 - 15

Reviewed B	7 •	Date:	
Ve A Temer D	у •	Duce.	

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:37:13

Page: 20

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

RI/FS

Sample#: 9800160 Case#: 7987

Client Sample Description: Client Project Name: L A K A

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Client Field Number: 07(10-11)

Date Received: 01/07/98

Report Package: Other

Phases:

		M a a to	ANALYTICAL DATA			SAMPL	E PREP	SAMPLE AN		
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98			****************					***************************************
s	CN	01/20/98	•	0.57_	my/Kg	01/12/98	IM.	01/12/98	<u>F</u>	841 -15

Reviewed By:		vate:		
- · · · · · · · · · · · · · · · · · · ·	 			

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:37:20

Page: 21

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A RI/FS

Client Field Number: 07(14-16)

Sample#: 9800161

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98 Date Received: 01/07/98

Report Package: Other

Phases:

	Test		ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS			
itx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
S	% SOLIDS	01/20/98			***************************************						
s	CN	01/20/98	***************************************	0.51	myly.	01/12/98	_ FM	01/12/98	<u> </u>	841-15	

Reviewed By:				Date:					
Matrix: A=Aqueous:	s=Soil:	o=oil:	K=Solid:	F=Filters:	P=Potable	Water:	G=Sludge:	X=Other:	RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:37:27

Page: 22

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800162

Client Sample Description:

Case#: 7987

Client Project Name: L A K A R I / F S

Operations Case Due Date: 01/19/98

Client Field Number: 07(18-20)

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

Pnase	35:	M = m +	ANAL	YTICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98								
S	CN	01/20/98		0.52	mg/kg.	01/12/98	<u> </u>	01/12/98	5~7	841 -15

Reviewed By:	Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:37:35

Page: 23

7 DAY HOLD TIME HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A RI/FS

Client Field Number: 07(22-24)

Sample#: 9800163

7987 Case#:

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Moat.	ANALYTICAL DATA			SAMPL	E PREP	SAMPLE AN	ALYSIS	
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98								
S	CN	01/20/98		0.50	my/h	01/12/98	- T	0112/98	IM	841 - 15

Reviewed	By:	Date:	
	-		

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:35:01

Page: 1

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800141

Client Sample Description:

Case#: 7987

RI/FS Client Project Name: L A K A Client Field Number: 02(1-2)

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98 Date Received: 01/07/98

Report Package: Other

Phases:

		Test	ANAL	YTICAL D	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
itx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98	85.9	0,10	<u> </u>	1/13/58	Du	4/14/91	pr	3/1/

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:35:02

Page: 2

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I / F S

Client Field Number: 02(5-6)

Sample#: 9800142

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
[tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	96.3	0110	<u>/</u>)/13/5e	e Dr	4/14/14	gn	3/11

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

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Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:35:07

Page: 3

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I / F S

Client Field Number: 02(8-9)

Sample#: 9800143

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Ma a ta	ANAL	YTICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
îtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98	96.8	0,10	<u>/</u> .	4/1/81	Du	1/5/1	m	7///
S	CN	01/20/98	***************************************		**************************************		***************************************			

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

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Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:35:14

Page: 4

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I / F S

Client Field Number: 02(22-23)

Sample#: 9800144

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		mo a t	ANALY	TICAL D	ATA	SAMPLI	E PREP	SAMPLE AN	IALYSIS	
[tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	TINIT	REF
S	% SOLIDS	01/20/98	98,5	0,10	<u> </u>	1/13/91	r Dr	4/4/81	my	3/1/

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

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Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:35:21

Page: 5

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800145

Client Sample Description:

Case#: 7987

Client Project Name: LAKA RI/FS

Operations Case Due Date: 01/19/98

Client Field Number: 03(4-5)

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Mont	ANALY	TICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
4tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	87.7	0110	<u>/.</u> ,	1/14/81	Mu	4/14/11	My	3///

Reviewed By:

Date: 1-14-98

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

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Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:35:29

Page: 6

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I / F S

Client Field Number: 03(11-12)

Sample#: 9800146

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLE	E PREP	SAMPLE AN	ALYSIS	
Иtх	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98	P7.0	0110	<u>×</u> ,	<u> </u>	J2	4/3/81	- M	3///

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:35:36

Page: 7

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A

RI/FS

Client Field Number: 03(14-16)

Sample#: 9800147

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98 Date Received: 01/07/98

Report Package: Other

Phaces.

Filasi	es.	m +	ANAL	YTICAL D	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
(tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98	95.2	0110	7.	1/5/58	Dy	1/8/98	The	3/1/

Date: _ /-/4-Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:35:44

Page: 8

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: LAKA RI/FS

Client Field Number: 03(16-17)

Sample#: 9800148

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLE	E PREP	SAMPLE AN	ALYSIS		
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
s	% SOLIDS	01/20/98	96.0	0110	<u> </u>	1/4/4r	pr	-f/9/21	Pu	3/19	

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:35:52

Page: 9

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800149

Client Sample Description:

Case#: 7987

Client Project Name: L A K A R I / F S

Operations Case Due Date: 01/19/98

Client Field Number: 03(18-19)

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		m	ANAL	TICAL D	ATA	SAMPL	E PREP	SAMPLE ANA	ALYSIS		
[tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
s	% SOLIDS	01/20/98	93.1	0.10	2	1/8/42	m	1/1/11	Pu	3///	
S	CN	01/20/98									

Reviewed By:

Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:36:06

Page: 10

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I / F S

Client Field Number: 03(20-21)

Sample#: 9800150

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Most	ANALY	TICAL D	ATA	SAMPLE	E PREP	SAMPLE AN	ALYSIS	
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	91, 9	0,10	<u>/</u> .	/k/4r	Ry	1/2/28	M	3/10

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:36:06

Page: 11

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800151

Client Sample Description:

Case#: 7987

Client Project Name: L A K A R I / F S

Operations Case Due Date: 01/19/98

Client Field Number: 03(34-35)

Date Sampled: 01/06/98
Date Received: 01/07/98

Report Package: Other

Phases:

		Test	ANALY	TICAL DA	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	95.8	0110	<u> </u>	18/1	an	1/9/9	My	3//2

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:36:14

Page: 12

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I / F S

Client Field Number: 04(8-9)

Sample#: 9800152

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		Mo at	ANALY	TICAL DA	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	91,6	0110	<u>L</u> ,	1///21	m	1/11	By	3110

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:36:21

Page: 13

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800153

Client Sample Description:

Case#: 7987

Client Project Name: L A K A R I / F S

Operations Case Due Date: 01/19/98

Client Field Number: 04(13-14)

Date Sampled: 01/06/98 Date Received: 01/07/98

Report Package: Other

Phases:

11100			ANALY	TICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
1tx	Analytes	Test Due Dat e	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	93.2	0110	*	/Se/8	Dr	1/9/8	By	31/2

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

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Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:36:28

Page: 14

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A RI/FS

Client Field Number: 04(33-34)

Sample#: 9800154

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		m	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS			
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
S	% SOLIDS	01/20/98	95.8	0110		1/8/kl	m	4/1/11	m	3//2	

Date: Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:36:43

Page: 16

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800156

Client Sample Description:

Client Field Number: 05(9-10)

Case#: 7987

Client Project Name: L A K A RI/FS Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

		m +	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	94.6	0,10	<u>/.</u> ,	1/1/81	m	4/88	m	2112
s	CN	01/20/98					•			

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

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Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:36:51

Page: 17

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I / F S

Client Field Number: 05(16-17)

Sample#: 9800157

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

11100		Ma at	ANAL	TICAL D	ATA	SAMPLE	PREP	SAMPLE AND	ALYSIS	
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98	95.5	0110	<u> </u>	11/1	m.	1/1/11	m	3112
S	CN	01/20/98		***************************************			***************************************		**************************************	

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:36:58

Page: 18

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800158

Client Sample Description:

Case#: 7987

Client Project Name: LAKA RI/FS

Operations Case Due Date: 01/19/98

Client Field Number: 06(10-11)

Date Sampled: 01/06/98 Date Received: 01/07/98

Report Package: Other

Phases:

Test		most.	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
itx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	96.9	0,10	<u>//</u> .	1/8/4	m	1/4/18	M	3112
s	CN	01/20/98					******		***************************************	

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:37:05

Page: 19

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800159

Client Sample Description:

Case#: 7987

Client Project Name: L A K A RI/FS Operations Case Due Date: 01/19/98

Client Field Number: 06(20-22)

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

ma at		Wa ob	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/20/98	93.5	0.10	<u> </u>	18/11	m	1/9/98	m	3112
S	CN	01/20/98	***************************************	Marie Marie						

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:37:13

Page: 20

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800160

Client Sample Description:

Case#: 7987

Client Project Name: L A K A R I / F S

Operations Case Due Date: 01/19/98

Client Field Number: 07(10-11)

Date Sampled: 01/06/98 Date Received: 01/07/98

Report Package: Other

Phases:

Filabes.		m -	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
<u> </u>	% SOLIDS	01/20/98	85.8	0116	<u> </u>	18/61	M	1/1/18	M	2/12
S	CN	01/20/98		****						

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:37:20

Page: 21

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800161

Client Sample Description:

Case#: 7987

Client Project Name: L A K A RI/FS Client Field Number: 07(14-16)

Operations Case Due Date: 01/19/98 Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

2 2 2 2 2		m+	ANALY	YTICAL DA	ATA	SAMPLE	PREP	SAMPLE ANA	LYSIS		
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	_
S	% SOLIDS	01/20/98	94.2	0110	<u>/</u> ,	1/8/4	Du	4/2/28	an	31/6	-
S	CN	01/20/98									-

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:37:27

Page: 22

7987

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A RI/FS

Client Field Number: 07(18-20)

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Sample#: 9800162

Date Received: 01/07/98

Case#:

Report Package: Other

Phases:

1110001		m	ANALY	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS	
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	96.1	0,10	<u>Y.</u>	1/4/41	m	1/4/88	m	3/12
S	CN	01/20/98		****	***************************************					

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc.
General Chemistry Laboratory Chronicle

Time: 11:37:35

Page: 23

HC 01/19 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: LAKA RI/FS

Client Field Number: 07(22-24)

Sample#: 9800163

Case#: 7987

Operations Case Due Date: 01/19/98

Date Sampled: 01/06/98

Date Received: 01/07/98

Report Package: Other

Phases:

11145551		W	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/20/98	96.7	0,10	1/	1/8/51	Dr	1/8/19	R	~ 3/1/
s	CN	01/20/98			*************************		****			

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

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ACCREDITED LABORATORIES, INC.

(

CHAIN OF CUSTODY FOR

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

)		\sim
PAGE_		OF	6-

CLIENT	LMS Engine	ers	
ADDRESS	One Blue Hil	1 Pla	Za
CITY	Pearl River		
STATE	NY	ZIP	10965

PROJECT	LAKA RIIFS	
CONTACT	Maria Heinz	-
- PHONE	914 - 735 - 8300	
FAX	914-735-7466	· ·

P.O.#

STATE	NY	ZIP	10965	FAX 9/	4-735-7466
ALI SAMI	PLE#) ID *C **N	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
9800	141 FLGP-02	(1-a) 15	16-98/0808	geoprobe Soils	Vocs
9800			1-6-98/0819) / "	Vocs
	143 FLGP-62		1-6-98/0834	11	VOCs / Metals and CN-
9800	1144 FLGP-0.	a (22-23) 1 5	1-6-98/0900	11	Vocs
9800	11.15 FLGP-03	3 (4-5) 1 5	1-6-98/0945	Ü	VOC 5
9300	FIGP-63	(11-12) 1 5	1-6-98/0955	t _l	Vocs
9300	1.27 FLGP-03	(14-16) 15	1-6-98/1005	Ιſ	VOCs
9300	1:8 FLGP-03	(16-17) 1 5	1-6-98/1015	11	VOCS
9300	1:19 FLGP-03	3(18-19) 1 5	1-6-98/1020	f (Metals and CN-
9300	150 FLGP-03	(20-21) 15	1-6-18/1025	11	VOCs
9300			1-6-48/1115	ч	Vocs
9300	152 FLGP-04	1(8-9) 15	1-6-98/1244	11	VOCs
9300	153 FLGP-04	(13-14) 15	1-6-98/1330	11	VOCs
9300	154 FLGP=04	(33-34)] 5	1-6-98/1345	1	VOCS
9300	1.55 FLFB-	01 4 A	1-6-98/1400	Field blank (soils)	VOCs, Metals, CN Field bla
**M = MA	TRIX A=AQL	JEOUS S=SOIL	G=SLUDGE	P=POTABLE WATER O=	OIL F=FILTER K=SOLID X=OTHER
*C = NC	D. CONTAINERS	TURNAROUN	D:		(If Blank, Std. 3 weeks)
DELIVER	ABLES (circle one)	STD	REDUCE	D FULL (1	VY-ASP CLP II CLP II

DELIVERABLES	S (circle one)	STD	REDUCED	FULL	NY-A	SP (C	LPI		CLP II
REL	INQUISHED BY:		RECEIVED BY:			ORGANIZATION	DATE	TIME	REASON
PRINT	SIGN		PRINT	SIG	V	- OTOMISMON DATE THE		HEAGON	
SG# G. Engl	ex Sett & E	Det -							
	1-6-98	1700*		(7		11			
	* Samples	tipped via	FedEx NAn-	finelli.	Albert	rel- A	Œ	1/7/9	B Anal
PERSON(S) ASSU	MING RESPONSIBI	, .	·	50x 6. E	Lest	SIGN:	Jeo H	J. 2	Slest !
						ALI QUOT	E#	11	
COMMENTS						ALI CAS	+ 7	987	

COMMENTS

ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FORM

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

PAGE 2 OF 2

CLIENT	LMS ENGINEERS	PROJECT	LAŁ
ADDRESS	1 Blue Hill PIAZA	CONTACT	
CITY	PEARI River	PHONE	9
STATE	NY ZIP 10965	FAX	G

PROJECT	LAKA RI	NYSOEC
CONTACT	MARIA	Hiene2
PHONE	914-735-	8300
FAX	914-735-	-

ALI QUOTE#

ALI CASE

P.O.#

92 .7987

	121063		11017		19 153 0500
NY	Z	Р	10965	FAX 9	114-735-7466
* FIELD	iD *C	**M	DATE / TIME	SAMPLE DESCRIPTION	ANALYSIS
51.45	. 35> 7	7%:	SAMPLED	11 ga 발회가 되는 것 같습니다.	A STATE OF THE PROPERTY OF THE
5 FL6P-0	5(9-16) 2	5	1.6.58/1436	Geophorse Soils	VOCIS Metals+CN
1 401 42	(16-17) Z	S	1455		<u>/</u>
FC6P-06	110-11) 2		11525		
FL6P-06	120-72)2	5	1550		
		5	11404		
		6			
	10,000		- I		
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+46r-01	22-14) 2	3	1640		
-					
37	- 100 3 7 8 4 1 2 1				
A=AQUE	EOUS S=S	OIL	G=SLUDGE	P=POTABLE WATER O=C	DIL. F=FILTER K=SOLID X=OTHER
A=AQUE	EOUS S=S	OIL	G=SLUDGE	P=POTABLE WATER O=0	OIL, F=FILTER K=SOLID X=OTHER
A=AQUE	EOUS SES	OIL	G=SLUDGE	P=POTABLE WATER O=0	OIL, F=FILTER K=SOLID X=OTHER
A=AQUE	EOUS SS=SI	OIL	G=SLUDGE	P=POTABLE WATER O=C	OIL, F=FILTER K=SOLID X=OTHER (If Blank, Std. 3 weeks)
TAINERS	TURNARO	OIL	G=SLUDGE	P=POTABLE WATER Q=0	OIL, F=FILTER K=SOLID X=OTHER (If Blank, Std. 3 weeks)
A=AQUE	TURNARO	OIL	G=SLUDGE	P=POTABLE WATER Q=0	OIL, F=FILTER K=SOLID X=OTHER (If Blank, Std. 3 weeks)
TAINERS (circle one)	TURNARO	OIL	G=SLUDGE REDUCED	P=POTABLE WATER O=C	(If Blank, Std. 3 weeks)
TAINERS (circle one)	TURNARO	OIL	G=SLUDGE REDUCED	P=POTABLE WATER Q=0	OIL, F=FILTER K=SOLID X=OTHER (If Blank, Std. 3 weeks)
TAINERS (circle one)	TURNARO	OIL	G=SLUDGE REDUCED	FULL NY	(If Blank, Std. 3 weeks)
TAINERS (circle one)	TURNARO STD	OIL	G=SLUDGE REDUCED	FULL NY	(If Blank, Std. 3 weeks)
TAINERS (circle one)	TURNARO	OIL	G=SLUDGE REDUCED F PRINT	FULL NY	(If Blank, Std. 3 weeks)
A=AQUE (circle one) NQUISHED BY 1-6-98	TURNARO STD SIGN 1706	UND	G=SLUDGE REDUCED	FULL NY RECEIVED BY: SIGN	(If Blank, Std. 3 weeks) ASP CLPI CLPII ORGANIZATION DATE TIME REASON Multiple ALT 1/198 Acc
	FLEP-07 FLEP-07 FLEP-07 FLEP-07	FIELD ID *C FL6P-05(9-16) 2 FL6P-05 (16-17) 2 FL6P-06 (20-17) 2 FL6P-07 (10-11) 2 FL6P-07 (14-16) 2 FL6P-07 (18-24) 2	FIELD ID *C **M FIELD ID *C **M FIELD ID 2 5 FIELD *C **M FIELD ID 2 5 FIELD *C **M FIELD ID 2 5 FIELD *C **M FIELD ID **M FIELD ID **M FIELD ID **M FIELD ID **M FIELD ID **M FIELD ID **M FIELD ID **M FIELD ID **M FIELD ID **M FIELD ID **M FIELD ID **M FIELD ID *	FIGP-05(9-16) 2 5 1.16.78/1436 FLGP-85 (16-17) 2 5 1.16.78/1436 FLGP-86 (10-11) 2 5 1.1525 FLGP-86 (20-72) 2 5 1.1525 FLGP-87 (10-11) 2 5 1.1525 FLGP-07 (14-16) 2 5 1.1514 FLGP-07 (18-24) 7 5 1.630	FIGP-05(9-16) 2 5 1.16.58/1436 GAMPLE DESCRIPTION FIGP-05(9-16) 2 5 1.16.58/1436 GAMPLE DESCRIPTION FIGP-05(16-17) 2 5 1.16.55 FIGP-06(10-11) 2 5 1.1525 FIGP-06(10-12) 2 5 1.1509 FIGP-07(14-16) 2 5 1.169 FIGP-07(18-20) 2 5 1.169 FIGP-07(18-20) 2 5 1.169

Accredited Laboratories, Inc.

INTERNAL CHAIN OF CUSTODY

Seal on Sampl	erson Breakin le Shuttle & . ty for Sample	Accepting	tory: Accredited Laborato			•
Field Sample	Seal No.	MN	Date Broken://	Military	Time Seal	Broken
Case No.	7987	-	Check if No Seal on S	Sample Shuttle	•	
Fiel	Ld #	Laboratory #	Test Name	Date Sa	ampled	Date Receive
02(1-2 02(5-6 02(8-9 02(22- 03(4-5 03(11- 03(16- 03(20- 04(13- 04(13- 04(33- FLFB- 05(16- 06(10- 06(20- 07(10-	5) -23) -12) -16) -17) -35) -14) -34) -17) -11) -22)	9800141 9800142 9800143 9800144 9800145 9800147 9800148 9800150 9800151 9800152 9800153 9800154 9800155 9800155 9800157 9800158 9800159 9800160	VO VO VO VO VO VO VO VO VO VO VO VO VO V	01/06 01/06 01/06 01/06 01/06 01/06 01/06 01/06 01/06 01/06 01/06 01/06 01/06 01/06	6/98 6/98 6/98 6/98 6/98 6/98 6/98 6/98	01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98 01/07/98
DATE TIME	RELINQUIS	HED BY	RECEIVED BY	***************************************	PUR	POSE OF CHANGE OF CUSTO
	Printed Na	ame American American	Printed Name W. LLO	RENTE		
1-8-98	Signature	Market.	Printed Name W. LLO Signature W Hare	ate.	a	ralysis
	Printed Na	ame	Printed Name			
!	Signature		Signature			
	Printed Na	ame	Printed Name			
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05(16-		9800157	TAL	01/06		01/07/98
06(10-		9800158	TAL	01/06		01/07/98
06(20-		9800159	TAL	01/06		01/07/98
07(10-	-11)	9800160	TAL	01/06	5/98	01/07/98
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Accredited Laboratories, Inc.

INTERNAL CHAIN OF CUSTODY

	•	on Breaking	•	ory: Accredited Laborator	ries, Inc. L	ocation: C	Carteret, N.J.	
-		Shuttle & A for Sample		N ANTONI	ELLi- T	itle: <u></u>	SRO	
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791COC

METHODOLOGY SUMMARY

Volatile Organics: EPA-CLP-SOW (Document Number OLM03.1)

Water Samples

Volatile organic compounds are purged from a 5ml sample at ambient temperature by bubbling an inert gas through the aqueous sample. The volatile organics are efficiently transferred from aqueous phase to the vapor phase and then trapped onto a sorbent column. When purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the volatile organics from the sorbent column to a GC column. The GC is temperature programmed to separate the volatile organics which are then detected and quantified with a mass spectrometer.

Soil/Sediment Samples

a. Low level:

An inert gas is purged through a mixture containing 5g of sample and reagent water at an elevated temperature. The volatile organics are efficiently transferred from aqueous phase to the vapor phase and then trapped onto a sorbent column. When purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the volatile organics from the sorbent column to a GC column. The GC is temperature programmed to separate the volatile organics which are then detected and quantified with a mass spectrometer.

TAL Metals: EPA-CLP-SOW (Document Number ILM04.0)

Water Samples

a. Furnace AA Analysis:

A 100ml portion of sample is digested with nitric acid and 30% H_2O_2 on a hot plate for 2 hours at 95°C or until sample volume is reduced to between 25 and 50ml. The digested sample is cooled, filtered and volume-adjusted to 100ml with reagent water. The digestate is then analyzed by Graphite Furnace Atomic Absorption Spectroscopy.

b. ICP and Flame AA Analysis:

A 100ml portion of sample is digested with the mixed acids of nitric acid and hydrochloric acid on a hot plate for 2 hours at 95°C or until sample volume is reduced to between 25 and 50ml. The digested sample is cooled, filtered and volume-adjusted to 100ml with reagent water. The digestate is then analyzed by either Flame Atomic Absorption Spectroscopy or Inductively Coupled Plasma Spectroscopy.

c. Cold Vapor Technique for Mercury Analysis:

A 100ml portion of sample is digested with the mixed acids (sulfuric acid and nitric acid) and the oxidizing agents (potassium permanganate and potassium persulfate) in a water bath at 95°C. The excess potassium permanganate in the cooled digestate is reduced by adding the sodium chloride
hydroxylamine sulfate. The mercury in the digestate is

reduced to the elemental state and detected by Cold Vapor Atomic Absorption Spectroscopy.

Soil/Sediment Samples

A 1qm portion of sample is digested with nitric acid and hydrogen peroxide. The digestate is then refluxed with either nitric acid or hydrochloric acid. Diluted hydrochloric acid is used as the final reflux acid for the Furnace AA analysis of Sb, the Flame AA or ICP analysis of Al, Sb, Ba, Be, Ca, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Tl, V and Zn. Nitric acid is employed as the final reflux acid for the Furnace AA analysis of As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, Se, Ag, Tl, V and Zn. For the graphite furnace analysis, an aliquot of the digestate is spiked with modifier solution and is placed into the graphite furnace. aliquot is then slowly evaporated to dryness, charred and atomized. The absorption of the EDL radiation during atomization is proportional to the element concentration. For the flame AA, the digestate is aspirated and atomized in a flame. The absorption of the HCL radiation during atomization is proportional to the element concentration. The basis of ICAP method is the measurement of atomic emission by an optical spectroscope technique. The emission spectra are dispersed by a grating spectrometer and the intensities of the line are measured and processed by a computer system. mercury analysis, a 0.2qm portion of sample is digested with potassium permanganate and persulfate at acidic condition in a water bath at 95°C. The mercury in the sample is reduced to the elemental state and detected by the cold vapor technique in a closed system.

Total Cyanide: EPA-CLP-SOW (Document Number ILM03.0)

Water Samples

A 500ml portion of sample is placed into a cyanide distillation apparatus. Hydrogen cyanide gas is liberated from the aqueous solution upon addition of sulfuric acid, magnesium chloride solution and heat. The hydrogen cyanide gas is trapped in a scrubber containing sodium hydroxide solution. The color is formed when the reagents of chloramine-T and pyridine-barbifuric acid mixture is added into scrubber solution. The intensity of the color is measured spectrophotometrically and is proportional to the concentration of cyanide in the solution.

Soil/Sediment Samples

A 1-5gm portion of sample mixed with reagent water is placed into a cyanide distillation appartus. Hydrogen cyanide gas is liberated from the aqueous solution upon addition of sulfuric acid, magnesium chloride solution and heat. The hydrogen cyanide gas is trapped in a scrubber containing sodium hydroxide solution. The color is formed when the reagents of chloramine-T and pyridine-barbifuric acid mixture is added into scrubber solution. The intensity of the color is measured spectrophotometrically and is proportional to the concentration of cyanide in the solution.

EPA SAMPLE NO

Lab Name: ACCREDITED LABS,	INC. Contra	act:		02-1-2	
Lab Code: 11109 Case No	.: 7987 SAS 1	No.: SI	OG No.:		
Matrix: (soil/water) SOIL	ŕ	Lab Sample	[D: 9800]	141	
Sample wt/vol: 5.0	(g/mL) G	Lab File ID:	>D417	78	
Level: (low/med) LOW		Date Receive	ed: 01/07	7/98	
% Moisture: not dec. 14		Date Analyze	ed: 01/08	3/98	
GC Column: RTX-502 ID: 0	.53 (mm)	Dilution Fac	ctor:	1.0	
Soil Extract Volume:	_(uL)	Soil Aliquot	: Volume:		(uL)
	CON	CENTRATION UNIT	as:		
CAS NO. COMPO		g/L or ug/Kg) UC		Q	
74-87-3	omethane l Chloride roethane ylene Chloride one on Disulfide Dichloroethane Dichloroethane canone l-Trichloroethane dichloromethane odichloromethane l-Trichloropane l-Trichloropane l-Trichloropane l-Trichloroethane cochloromethane cochloroethene cochloroethene cochloroethene cochloroethene cochloroethene cochloroethene cochloroethene cochloroethene cochloroethene cochloroethene	pene	12 12 12 12 3900 12 12 12 12 12 12 12 12 12 12 12 12 12	U U U U U U U U U U U U U U U U U U U	

EPA SAMPLE NO.

_					02-1-2
Lab Name:	ACCREDITED	LABS,	INC.	Contract:	
1					

__Matrix: (soil/water) SOIL Lab Sample ID: 9800141

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4178

■ Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 14 Date Analyzed: 01/08/98

■ GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: Number TICs found: 6 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	Unknown Hydrocarbon	9.64	10	N
1.	Unknown Hydrocarbon	22.88	7	N
2.	Unknown	28.27	12	N
3. 4.	Unknown	29.33	8	N
5.	Unknown Aromatic	29.97	10	N
6.	Unknown	33.62	12	N
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EPA SAMPLE NO

02 1-2DL

0

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: 11109 Case No.: 7987 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9800141DL

Sample wt/vol: 5.0 (g/mL) GLab File ID: >D4221

Date Received: 01/07/98 (low/med) MED Level:

% Moisture: not dec. Date Analyzed: 01/11/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

CAS NO.

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 250

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

74-87-3-----Chloromethane 230 U 74-83-9-----Bromomethane 230 U 75-01-4-----Vinyl Chloride 230 H 75-00-3-----Chloroethane 230 U 75-09-2----Methylene Chloride 230 U 67-64-1-----Acetone 4300 D 75-15-0-----Carbon Disulfide 230 U 75-35-4----1,1-Dichloroethene 230 H 75-34-3----1,1-Dichloroethane 230 U 540-59-0----1,2-Dichloroethene (total) 230 U 67-66-3-----Chloroform 230 Ū 107-06-2----1,2-Dichloroethane 230 Ū 78-93-3----2-Butanone 230 U 71-55-6----1,1,1-Trichloroethane 230 Ū 56-23-5-----Carbon Tetrachloride 230 Ū 75-27-4-----Bromodichloromethane 230 U 78-87-5----1,2-Dichloropropane 230 U 10061-01-5----cis-1,3-Dichloropropene 230 U 79-01-6----Trichloroethene 230 U 124-48-1-----Dibromochloromethane 230 Ū $79-00-5-----1,1,2-Trichloroethan\overline{e}$ 230 U 71-43-2----Benzene 10061-02-6----trans-1,3-Dichloropropene 230 U 230 U 75-25-2----Bromoform 230 Ū 108-10-1----4-Methyl-2-Pentanone 230 U 591-78-6----2-Hexanone 230 TT 127-18-4----Tetrachloroethene 230 U 79-34-5----1,1,2,2-Tetrachloroethane 230 U 108-88-3----Toluene Ū 230 108-90-7-----Chlorobenzene 230 U 100-41-4----Ethylbenzene 1400 D 100-42-5----Styrene 230 Ū 1330-20-7-----Xylene (total) 1500 D

EPA SAMPLE NO.

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						02 5	-6	
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:			

Matrix: (soil/water) SOIL Lab Sample ID: 9800142

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4211

■ Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 4 Date Analyzed: 01/10/98

■ GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

74-87-3Chloromethane 10 U 74-83-9Bromomethane 10 U 75-01-4Vinyl Chloride 10 U 75-00-3Chloroethane 10 U 75-09-2Methylene Chloride 10 U 67-64-1			1	T
74-83-9Bromomethane 10 U 75-01-4Vinyl Chloride 10 U 75-00-3Chloroethane 10 U 75-09-2Methylene Chloride 10 U 67-64-1Acetone 10 U 75-15-0Carbon Disulfide 10 U 75-35-41, 1-Dichloroethene 10 U 75-34-31, 2-Dichloroethane 10 U 67-66-31, 2-Dichloroethane 10 U 76-66-31, 2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61, 1, 1-Trichloroethane 10 U 75-27-4Bromodichloromethane 10 U 78-87-51, 2-Dichloropropane 10 U 10061-01-5	74-87-3	Chloromethane	10	U
75-01-4				U
75-00-3			10	u
75-09-2Methylene Chloride 10 U 67-64-1Acetone 10 U 75-15-0			10	U
67-64-1			10	U
75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethene 10 U 75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 75-27-4Bromodichloromethane 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 1061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 107-34-51,1,2,2-Tetrachloroethane 10 U			10	U
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75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3	75-35-4	1,1-Dichloroethene	10	[]
540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 1061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 107-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Chlorobenzene 10 U 100-41			10	U
67-66-3			10	U
78-93-3			10	U
78-93-3	107-06-2	1,2-Dichloroethane	10	U
56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10661-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-1Bromoform 10 U 108-10-1Bromoform 10 U 127-18-4			10	U
75-27-4	71-55-6	1,1,1-Trichloroethane	10	U
78-87-51, 2-Dichloropropane 10 U 10061-01-5cis-1, 3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51, 1, 2-Trichloroethane 10 U 71-43-2Benzene 10 U 1061-02-6trans-1, 3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51, 1, 2, 2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 109-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U	56-23-5	Carbon Tetrachloride	10	U
10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5	75-27-4	Bromodichloromethane	10	U
79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5	78-87-5	1,2-Dichloropropane	10	U
124-48-1	10061-01-5	cis-1,3-Dichloropropene	10	U
79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U			10	
71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5			10	U
10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U	79-00-5	1,1,2-Trichloroethane	10	[]
75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U			10	U
108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U			10	U
591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U				
127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U			- " ,	
79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U				U
108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U	127-18-4	Tetrachloroethene		
108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U			_ "	
100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U				
100-42-5Styrene 10 U				
1330-20-7Xylene (total)10U				
	1330-20-7	Xylene (total)	10	U
	When the Strong states and Strong states are stated as the state of th	Consider Asset Construct (AA) — were Const. 1.17 .	-	

EPA	SAMPLE	NO
0.1		

Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800142
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4211
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 4	Date Analyzed: 01/10/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/KG RTCAS NUMBER COMPOUND NAME EST. CONC. Q 1. 556672 Cyclotetrasiloxane, octameth 29.33 26 Ν 2._ Unknown Aromatic 33.67 68 Ν 3._ 7._ 8.__ 9._ 10. 11. 20. 21. 22. 23. 24. 25.

105

26. 27._ 28. 29._ 30.

EPA SAMPLE NO.

02-8-9	
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				02-8-9
Lab Name: ACCF	REDITED LABS, INC.	Contract:		
Lab Code: 1110	Og Case No.: 7987	SAS No.:	SDG	No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9800143

Lab File ID: >D4180 Sample wt/vol: 5.0 (g/mL) G

Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 3 Date Analyzed: 01/08/98

■ GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

	A family deposit of the second		I
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	- <u>u</u> -
	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	Ü
	Methylene Chloride	10	U
67-64-1	Acetone	870	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
	1,2-Dichloroethene (total)	10	U
67-66-3		10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3		10	U
	1,1,1-Trichloroethane	10	U
	Carbon Tetrachloride	10	U
	Bromodichloromethane	10	U
	1,2-Dichloropropane	10	U
	cis-1,3-Dichloropropene	10	U
	Trichloroethene	3	J
	Dibromochloromethane	10	UU
	1,1,2-Trichloroethane	10	U
71-43-2		10	U
	trans-1,3-Dichloropropene	10	U
75-25-2		10	U
	4-Methyl-2-Pentanone	10	U
591-78-6		10	U
	Tetrachloroethene	10	U
	1,1,2,2-Tetrachloroethane	10	UU
108-88-3		4	_J
	Chlorobenzene	10	U
	Ethylbenzene	160	
100-42-5		. 10	U_
1330-20-7	Xylene (total)	710	E
	The second secon		

EFA	SAMPLE	MC

Lab Name: ACCREDITED LABS, INC.	02-8-9 Contract:
Lab Code: 11109 Case No.: 7987	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800143
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4180
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 3	Date Analyzed: 01/08/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
Number TICs found: 3	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
2. Ur	nknown Hydrocarbon nknown Aromatic nknown Aromatic	9.70 29.98 33.63	12 5 7	= = = = N N N
4				
9.				
2. 3. 4.				
5. 6. 7.				
0				
3. 4. 5.				
7.				

EPA SAMPLE NO.

						028-9DI,
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	and the second s

__Matrix: (soil/water) SOIL Lab Sample ID: 9800143DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D4216

■ Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 3 Date Analyzed: 01/10/98

■GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

1

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

		1
74-87-3Chloromethane	52	U
74-83-9Bromomethane	52	U
75-01-4Vinyl Chloride	52	U
75-00-3Chloroethane	52	U
75-09-2Methylene Chloride	52	U
67-64-1Acetone	930	D
75-15-0Carbon Disulfide	52	ן "ט" ן
75-35-41,1-Dichloroethene	52	U
75-34-31,1-Dichloroethane	52	U
540-59-01,2-Dichloroethene (total)	52	U
67-66-3Chloroform	52	U
107-06-21,2-Dichloroethane	52	U
78-93-32-Butanone	52	U
71-55-61,1,1-Trichloroethane	52	U
56-23-5Carbon Tetrachloride	52	U
75-27-4Bromodichloromethane	52	U
78-87-51,2-Dichloropropane	52	U
10061-01-5cis-1,3-Dichloropropene	52	U
79-01-6Trichloroethene	52	U
124-48-1Dibromochloromethane	52	U
79-00-51,1,2-Trichloroethane	52	- U -
71-43-2Benzene	52	U
10061-02-6trans-1,3-Dichloropropene	52	U
75-25-2Bromoform	52	U
108-10-14-Methyl-2-Pentanone	52	U_
591-78-62-Hexanone	52	U
127-18-4Tetrachloroethene	52	U
79-34-51,1,2,2-Tetrachloroethane	52	U
108-88-3Toluene	52	U
108-90-7Chlorobenzene	52	U
100-41-4Ethylbenzene	150	D
100-42-5Styrene	52	U
1330-20-7Xylene (total)	960	D
		_

EPA	SAMPLE	NC

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 74-87-3Chloromethane 10 U 75-01-4Vinyl Chloride 10 U 75-00-3Methylene Chloride 10 U 75-15-0Acetone 10 U 75-35-41,1-Dichloroethane 10 U 75-34-31,2-Dichloroethane 10 U 67-66-3Chloroform 10 U 67-66-31,1-Dichloroethane 10 U 67-66-31,1-Dichloroethane 10 U 67-66-31,1-Dichloroethane 10 U 67-66-31,2-Dichloroethane 10 U 67-66-31,1-Dichloroethane 10 U 67-66-31,1-Dichloroethane 10 U 67-66-31,1-Trichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61,1-Trichloroethane 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropane 10 U 79-01-6Trichloroethane 10 U 79-01-6Trichloroethane 10 U 79-01-6	Lab Name: ACCREDITE) LABS, INC.	Contract:	0222-23
Sample wt/vol: 5.0 (g/mL) G	Lab Code: 11109	Case No.: 7987	SAS No.: SDG	No.:
Level: (low/med) Low Date Received: 01/07/98 % Moisture: not dec. 2 Date Analyzed: 01/10/98 GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (u CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q T4-87-3Chloromethane 10 U 74-87-3Chloromethane 10 U 75-00-3Chloromethane 10 U 75-00-3	Matrix: (soil/water)	SOIL	Lab Sample ID:	9800144
% Moisture: not dec. 2 Date Analyzed: 01/10/98 GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uCONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 74-87-3	Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4214
GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0 Soil Extract Volume: (uL) Soil Aliquot Volume: (uCONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q T4-87-3Chloromethane 10 U T5-01-4Vinyl Chloride 10 U T5-00-3Chloroethane 10 U T5-09-2	Level: (low/med)	LOW	Date Received:	01/07/98
CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q	% Moisture: not dec.	2	Date Analyzed:	01/10/98
CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	r: 1.0
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 74-87-3Chloromethane 10 U 74-83-9Bromomethane 10 U 75-01-4Vinyl Chloride 10 U 75-00-3Chloroethane 10 U 75-09-2Methylene Chloride 10 U 67-64-1Acetone 10 U 75-35-4	Soil Extract Volume:	(uL)	Soil Aliquot Vo	olume:(uL)
74-83-9Bromomethane 10 U 75-01-4Vinyl Chloride 10 U 75-00-3Chloroethane 10 U 75-09-2Methylene Chloride 10 U 67-64-1Acetone 10 U 75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethene 10 U 75-34-31,2-Dichloroethane 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-3Butanone 10 U 71-55-6	CAS NO.	COMPOUND		G Q
75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 127-18-4Tetrachloroethene 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene 1330-20-7Xylene (total)	74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-01-6 75-25-2 108-10-1 591-78-6 127-18-4 79-34-5 108-88-3 108-90-7 100-41-4 100-42-5	BromomethaneVinyl ChlorideChloroethaneMethylene ChlorideAcetoneCarbon Disulfic1,1-Dichloroeth1,2-DichloroethChloroform1,2-DichloroethCarbon TetrachCarbon TetrachBromodichlorome1,2-DichloroproCis-1,3-DichloroproCis-1,3-DichloroproCis-1,3-Dichlorome1,1,2-TrichloromeDibromochlorome1,1,2-TrichloromeBenzenetrans-1,3-Dichlorome1,1,2-TrichloromeTetrachloroetho2-HexanoneTetrachloroetho1,1,2,2-TetrachTolueneChlorobenzeneEthylbenzeneStyrene	de hene hane hene (total) hane oethane loride ethane opane ropropene e ethane oethane loropropene e ethane	10

EPA SAMPLE NO.

			TEN	TATIVELY	IDENTIFIED	COMPOUNDS	
							0222-23
Lab	Name:	ACCREDITED	LABS,	INC.	Contract	•	

(ug/L or ug/Kg) UG/KG

	Lab Code: 11109	Case No.: 7987	SAS No.:	SDG I	No.:
_	Matrix: (soil/water)	SOIL	ŕ	Lab Sample ID:	9800144
	Sample wt/vol:	5.0 (g/mL) G		Lab File ID:	>D4214
	Level: (low/med)	LOW		Date Received:	01/07/98
	% Moisture: not dec.	2		Date Analyzed:	01/10/98
	GC Column: RTX-502	ID: 0.53 (mm)		Dilution Factor	: 1.0
	Soil Extract Volume:	(uL)		Soil Aliquot Vo	olume:(uL)
			CONCEN	TRATION UNITS:	

Number TICs found: 2 COMPOUND NAME CAS NUMBER RTEST. CONC. Q _____ ____ 1. 556672 Cyclotetrasiloxane, octameth 29.35 87 N Unknown Aromatic 2._ 33.65 100 Ν 3._ 8.__ 9.__ 10.____ 11.____ 12.____ 13. 15. 16. 19. 23. 24.____ 25.___ 26. 27. 28. 29.____ 30.

EPA SAMPLE	NO
<u>., ang</u>	

Lab Name: ACCREDITED LABS, INC. Cor	ntract: 03-4-5
Lab Code: 11109 Case No.: 7987 SA	
Matrix: (soil/water) SOIL	Lab Sample ID: 9800145
Sample wt/vol: 5.0 (g/mL) G	-
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 12	Date Analyzed: 01/09/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume: (uL)
,	
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
74-87-3	11

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EPA :	SAMP	LE	NO
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	Lab Name : ACCDEDITED	TADO THO	Court in the court is	03-4-5
-	Lab Name: ACCREDITED	LABS, INC.	Contract:	
	Lab Code: 11109	Case No.: 7987	SAS No.: SDG No	o.:
	<pre>Matrix: (soil/water)</pre>	SOIL	Lab Sample ID: 9	9800145
	Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	D4182
-	Level: (low/med)	LOW	Date Received: (01/07/98
	% Moisture: not dec.	12	Date Analyzed: 0	01/09/98
*	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume: (uL)

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER COMPOUND NAME RTEST. CONC. Q 1. 76131 Ethane, 1,1,2-trichloro-1,2, 9.88 N 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19._ 20. 21._ 22. 23. 24._ 25._ 26. 27. 28. 29. 30.

EPA SAMPLE NO

					03-11-12
Lab Name:	ACCREDITED	LABS,	INC.	Contract:	

Matrix: (soil/water) SOIL Lab Sample ID: 9800146

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4229

Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 13 Date Analyzed: 01/12/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (uq/L or uq/Kq) UG/KG 74-87-3-----Chloromethane 11 IJ 74-83-9-----Bromomethane Ū 11 75-01-4-----Vinyl Chloride 11 U 75-00-3-----Chloroethane U 11 75-09-2----Methylene Chloride 11 67-64-1-----Acetone Ū 11 75-15-0-----Carbon Disulfide 11 Ū 75-35-4----1,1-Dichloroethene 11 U 75-34-3----1,1-Dichloroethane Ū 11 540-59-0----1,2-Dichloroethene (total) 11 11 67-66-3-----Chloroform Ū 11 107-06-2----1,2-Dichloroethane U 11 78-93-3----2-Butanone 11 U 71-55-6----1,1,1-Trichloroethane 11 U 56-23-5-----Carbon Tetrachloride 11 75-27-4----Bromodichloromethane 11 U 78-87-5----1,2-Dichloropropane ľŰ 11 10061-01-5----cis-1,3-Dichloropropene 11 79-01-6-----Trichloroethene 24 124-48-1-----Dibromochloromethane U 11 79-00-5----1,1,2-Trichloroethane IJ 11 71-43-2----Benzene 11 10061-02-6----trans-1,3-Dichloropropene 11 U 75-25-2-----Bromoform Ū 11 108-10-1----4-Methyl-2-Pentanone11 U 591-78-6----2-Hexanone U 11 127-18-4----Tetrachloroethene 11 U 79-34-5-----1,1,2,2-Tetrachloroethane 11 U 108-88-3----Toluene U 11 108-90-7-----Chlorobenzene U 11

U

U

11

11

11

100-41-4----Ethylbenzene

1330-20-7-----Xylene (total)

100-42-5----Styrene

EPA SAMPLE NO.

03-11-12

Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109 Case No.: 798	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800146
Sample wt/vol: 5.0 (g/mL)	G Lab File ID: >D4229
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 13	Date Analyzed: 01/12/98
GC Column: RTX-502 ID: 0.53 (m	mm) Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
Number TICs found: 5	CONCENTRATION UNITS:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131 2.	Ethane, 1,1,2-trichloro-1,2, Unknown Aromatic Cyclotetrasiloxane, octameth 1,3-Butadiene, pentachloro- Unknown Aromatic	9.92	34 6 210 47 180	N N N N N
19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.				

EPA	SAMPLE	NO
		1
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Lab Name: ACCREDITED	LABS, INC.	Contract:	03-14-16
Lab Code: 11109	Case No.: 7987	SAS No.: SDG No).:
Matrix: (soil/water)	SOIL	Lab Sample ID: 9	800147
Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >	D4228
Level: (low/med)	LOW	Date Received: 0	1/07/98
% Moisture: not dec.	5	Date Analyzed: 0	1/12/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane		10 U

74-87-3	Chloromethane	10 U
	Bromomethane	10
	Vinyl Chloride	10 U
	Chloroethane	10 U
	Methylene Chloride	7 J -
67-64-1		10 0
75-15-0	Carbon Disulfide	10 - U
75-35-4	1,1-Dichloroethene	10 -
	1,1-Dichloroethane	10 -
	1,2-Dichloroethene (total)	10 U
	Chloroform	10 U
	1,2-Dichloroethane	10 U
	2-Butanone	10 -
71-55-6	1,1,1-Trichloroethane	10 U
56-23-5	Carbon Tetrachloride	10
	Bromodichloromethane	10 U
78-87-5	1,2-Dichloropropane	10 U
10061-01-5	cis-1,3-Dichloropropene	10 U
79-01-6	Trichloroethene	9 J
124-48-1	Dibromochloromethane	10 TU
	1,1,2-Trichloroethane	10 0
71-43-2		10 U
	trans-1,3-Dichloropropene	10 U
75-25-2		10 U
108-10-1	4-Methyl-2-Pentanone	10 U
	2-Hexanone	10 U
	Tetrachloroethene	10 0
79-34-5	1,1,2,2-Tetrachloroethane	10 U
108-88-3		10 U
	Chlorobenzene	10 U
	Ethylbenzene	10 0
100-42-5		. 10 U
1330-20-7	Xylene (total)	10 U

EPA SAMPLE NO.

03-14-16

Lab Name: ACCREDITED LABS,	INC. Contract:	
Lab Code: 11109 Case No		SDG No.:
Matrix: (soil/water) SOIL	Lak	Sample ID: 9800147
Sample wt/vol: 5.0	(g/mL) G Lak	File ID: >D4228
Level: (low/med) LOW	Dat	e Received: 01/07/98
% Moisture: not dec. 5	Dat	e Analyzed: 01/12/98
GC Column: RTX-502 ID: 0.	53 (mm) Dil	ution Factor: 1.0
Soil Extract Volume:	_(uL) Soi	l Aliquot Volume:(uL)
Number TICs found: 8		TION UNITS: ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131 2. 556672 4. 5. 6. 7. 8.	Ethane, 1,1,2-trichloro-1,2, Unknown Cyclotetrasiloxane, octameth Unknown Unknown Hydrocarbon Unknown Hydrocarbon Unknown Unknown Unknown	9.92 23.85 29.38 31.30 32.03 32.67 33.26 33.67	37 5 490 8 15 23 5	N N N N N N
10. 11. 12. 13. 14. 15.				
18. 19. 20. 21. 22.				
25.				

EPA	SAMPLE	NO.

Lab Name: ACCREDITED LABS, INC. Contract:	03–16–17
Lab Code: 11109).:
Matrix: (soil/water) SOIL Lab Sample ID: 9	9800148
Sample wt/vol: 5.0 (g/mL) G Lab File ID:	D4195
Level: (low/med) LOW Date Received: 0	01/07/98
% Moisture: not dec. 4 Date Analyzed: 0	01/09/98
GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor:	1.0
Soil Extract Volume:(uL) Soil Aliquot Vol	ume: (uL)
CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-09-2	10

FORM I VOA

OLM03.0

EPA SAMPLE NO.

03-16-17

_ Lab Name: ACCF	REDITED LABS, INC.	Contract:	± '
	9 Case No.: 7987	SAS No.: SDG No.:	
Matrix: (soil/	water) SOIL	Lab Sample ID: 9800148	
Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >D4195	
Level: (low/	med) LOW	Date Received: 01/07/98	
% Moisture: no	t dec. 4	Date Analyzed: 01/09/98	
GC Column: RTX	-502 ID: 0.53 (mm)	Dilution Factor: 1.0	
Soil Extract V	olume:(uL)	Soil Aliquot Volume:	(uL)
Number TICs f	ound: 4	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 2. 57	Unknown Hydrocarbon Ethene, 1,2-dichlore-, (E)- Cyclotetrasiloxane, octameth		20	N N	
3. 556672	Cyclotetrasiloxane, octameth	29.30	170	N	
4.	Unknown	33.65	35	N	
5.					
6.					
7.					
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& J •)		
30.					

EPA SAMPLE NO

	VODATIBE ORGANICO	MIMBIDID DAIN DHEEL	
Lab Name: ACCREDITE	D LABS, INC.	Contract:	031617DL
Lab Code: 11109	Case No.: 7987	SAS No.: SDG No	o.:
Matrix: (soil/water) SOIL	Lab Sample ID:	9800148DL
Sample wt/vol:	1.0 (g/mL) G	Lab File ID:	>D4218
Level: (low/med)	LOW	Date Received:	01/07/98
% Moisture: not dec	. 4	Date Analyzed:	01/10/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	: 1.0
Soil Extract Volume	:(uL)	Soil Aliquot Vo	lume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

	Management of the second secon		
74-87-3	Chloromethane	52	U
	Bromomethane	52	U
	Vinyl Chloride	52	U
75-00-3	Chloroethane	52	U
	Methylene Chloride	52	
67-64-1	Acetone	52	U
75-15-0	Carbon Disulfide	52	U
75-35-4	1,1-Dichloroethene	5-2	U
75-34-3	1,1-Dichloroethane	52	U
540-59-0	1,2-Dichloroethene (total)	52	U
67-66-3	Chloroform	52	U
107-06-2	1,2-Dichloroethane	52	U
	2-Butanone	52	U
	1,1,1-Trichloroethane	52	U
56-23-5	Carbon Tetrachloride	52	U
	Bromodichloromethane	52	U
	1,2-Dichloropropane	52	U
	cis-1,3-Dichloropropene	52	U
	Trichloroethene	410	D
	Dibromochloromethane	52	U
	1,1,2-Trichloroethane	52	U
71-43-2		52	U
	trans-1,3-Dichloropropene	52	U
	Bromoform	52	UU
	4-Methyl-2-Pentanone	52	U
	2-Hexanone	52	U
	Tetrachloroethene	45	JD_
	1,1,2,2-Tetrachloroethane	52	U
108-88-3		52	U
	Chlorobenzene	52	U
	Ethylbenzene	52	U
100-42-5		. 52	U
1330-20-7	Xylene (total)	52	U

EPA SAMPLE NO.

03-20-21	
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	Lab	Name:	ACCREDITE	D LABS, INC.	Contract:		03-20-21
•	Lab	Code:	11109	Case No.: 7987	SAS No.:	SDG N	o.:

Matrix: (soil/water) SOIL Lab Sample ID: 9800150

Sample wt/vol: 5.0 (q/mL) G Lab File ID: >D4197

Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 8 Date Analyzed: 01/09/98

■ GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: (uL) Soil Extract Volume: ____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3				
75-01-4Vinyl Chloride 11 U 75-00-3Chloroethane 11 U 75-09-2Methylene Chloride 32 B 67-64-1Acetone 38 B 75-15-0Carbon Disulfide 11 U 75-35-41,1-Dichloroethene 11 U 540-59-01,2-Dichloroethane 11 U 540-59-01,2-Dichloroethane 11 U 67-66-3Chloroform 11 U 107-06-21,2-Dichloroethane 11 U 78-93-32-Butanone 11 U 71-55-61,1,1-Trichloroethane 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6	74-87-3	Chloromethane	11	U
75-00-3Chloroethane 11 U 75-09-2Methylene Chloride 32 B 67-64-1Actone 38 B 75-15-0Carbon Disulfide 11 U 75-35-41,1-Dichloroethene 11 U 75-34-31,2-Dichloroethane 11 U 67-66-3Chloroform 11 U 107-06-21,2-Dichloroethane 11 U 78-93-32-Butanone 11 U 71-55-61,1,1-Trichloroethane 11 U 56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5is-1,3-Dichloropropene 11 U 79-01-6Trichloroethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone			1 1	UU
T5-09-2Methylene Chloride 32 B 67-64-1Acetone 38 B 75-15-0Carbon Disulfide 11 U 75-35-41,1-Dichloroethene 11 U U 540-59-01,2-Dichloroethene 11 U U 67-66-3			11	U
67-64-1Acetone 38 B 75-15-0Carbon Disulfide 11 U 75-35-41,1-Dichloroethene 11 U 75-34-31,1-Dichloroethane 11 U 540-59-01,2-Dichloroethene (total) 11 U 67-66-3Chloroform 11 U 107-06-21,2-Dichloroethane 11 U 78-93-3			1 1	U
75-15-0Carbon Disulfide 11 U 75-35-41,1-Dichloroethene 11 U 75-34-31,2-Dichloroethane 11 U 540-59-01,2-Dichloroethene (total) 11 U 67-66-3Chloroform 11 U 107-06-21,2-Dichloroethane 11 U 78-93-32-Butanone 11 U 71-55-61,1,1-Trichloroethane 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethane 11 U 124-48-1Dibromochloromethane 11 U 124-48-1Benzene 11 U 10061-02-61,1,2-Trichloroethane 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 79-34-5Toluene 12	75-09-2	Methylene Chloride	32	B
75-35-41,1-Dichloroethene 11 U 75-34-31,1-Dichloroethane 11 U 540-59-01,2-Dichloroethene (total) 11 U 67-66-3Chloroform 11 U 107-06-21,2-Dichloroethane 11 U 78-93-32-Butanone 11 U 71-55-61,1,1-Trichloroethane 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethene 11 U 124-48-1Dibromochloromethane 11 U 124-48-1Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-1	67-64-1	Acetone	38	В_
75-34-31,1-Dichloroethane 11 U 540-59-01,2-Dichloroethene (total) 11 U 67-66-3			11	U
75-34-31,1-Dichloroethane 11 U 540-59-01,2-Dichloroethene (total) 11 U 67-66-3	75-35-4	1,1-Dichloroethene	11	U
540-59-01, 2-Dichloroethene (total) 11 U 67-66-3Chloroform 11 U 107-06-21, 2-Dichloroethane 11 U 78-93-32-Butanone 11 U 71-55-61, 1, 1-Trichloroethane 11 U 56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51, 2-Dichloropropane 11 U 10061-01-5cis-1, 3-Dichloropropane 11 U 179-01-6Trichloroethane 11 U 179-00-51, 1, 2-Trichloroethane 11 U 11-43-2Benzene 11 U 10061-02-6trans-1, 3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-1Bromoform 11 U 108-10-1	75-34-3	1,1-Dichloroethane	11	U
67-66-3	540-59-0	1,2-Dichloroethene (total)	11	U
78-93-32-Butanone 11 U 71-55-61,1,1-Trichloroethane 11 U 56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethene 11 U 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-5Toluene 12 U			11	U
71-55-61,1,1-Trichloroethane 11 U 56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethane 11 U 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethane 47 U 79-34-5Toluene 12 U	107-06-2	1,2-Dichloroethane	1 1	U
56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethene 1100 E 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 1061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-5Toluene 12 U	78-93-3	2-Butanone	1 1	U
56-23-5Carbon Tetrachloride 11 U 75-27-4Bromodichloromethane 11 U 78-87-51,2-Dichloropropane 11 U 10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethene 1100 E 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 1061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-5Toluene 12 U	71-55-6	1,1,1-Trichloroethane	11	U
78-87-51, 2-Dichloropropane 11 U 10061-01-5cis-1, 3-Dichloropropene 11 U 79-01-6Trichloroethene 1100 E 124-48-1Dibromochloromethane 11 U 79-00-51, 1, 2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1, 3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-5Toluene 12 U	56-23-5	Carbon Tetrachloride	1 1	U
10061-01-5cis-1,3-Dichloropropene 11 U 79-01-6Trichloroethene 1100 E 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-5Toluene 12 U	75-27-4	Bromodichloromethane	1 1	U
79-01-6Trichloroethene 1100 E 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12 U	78-87-5	1,2-Dichloropropane	11	-U $-$
79-01-6Trichloroethene 1100 E 124-48-1Dibromochloromethane 11 U 79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12 U	10061-01-5	cis-1,3-Dichloropropene	11	U
79-00-51,1,2-Trichloroethane 11 U 71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12 U	79-01-6	Trichloroethene	1100	
71-43-2Benzene 11 U 10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12	124-48-1	Dibromochloromethane	11	- U
10061-02-6trans-1,3-Dichloropropene 11 U 75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12	79-00-5	1,1,2-Trichloroethane	1.1	U
75-25-2Bromoform 11 U 108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12	71-43-2	Benzene	11	U
108-10-14-Methyl-2-Pentanone 11 U 591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 U 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12	10061-02-6	trans-1,3-Dichloropropene	11	U
591-78-62-Hexanone 11 U 127-18-4Tetrachloroethene 47 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12			11	U
127-18-4Tetrachloroethene 47 79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12	108-10-1	4-Methyl-2-Pentanone	11	U
79-34-51,1,2,2-Tetrachloroethane 11 U 108-88-3Toluene 12			11	U
108-88-3Toluene			47	
			11	U
108-90-7Chlorobenzene 11 U			12	
			11	U
100-41-4Ethylbenzene 5 J	100-41-4	Ethylbenzene	5	J
100-42-5Styrene 11 U	100-42-5	Styrene	. 11	U
1330-20-7Xylene (total) 22	1330-20-7	Xylene (total)	22	

EPA	SAMPLE	NO
0.3	3-20-21	

					03-20-21
Lab Nai	me: ACCREDITED	LABS,	INC.	Contract:	

SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9800150

Sample wt/vol: 5.0 (g/mL) GLab File ID: >D4197

Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 8 Date Analyzed: 01/09/98

GC Column: RTX-502 Dilution Factor: 1.0 ID: 0.53 (mm)

Soil Aliquot Volume: (uL) Soil Extract Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 15869940 3.	Unknown Aromatic Octane, 3,6-dimethyl- (8CI9C Unknown Hydrocarbon	27.38 28.48 29.35	77 41 79	N N N
4. 5911046 5.	Nonane, 3-methyl- (8CI9CI) Unknown Hydrocarbon	29.76 30.99	65 50	N N
6. 17302282 7. 8.	Nonane, 2,6-dimethyl- (8CI9C Unknown Hydrocarbon Unknown Hydrocarbon	31.27 32.36 32.55	90 75 92	N N N
9. 17302328 10.	Nonane, 3,7-dimethyl- (8CI9C Unknown		54 180	N N
12.		***************************************		
15.				
16. 17. 18.				
19. 20. 21.				
23.				
24. 25. 26.			Commission of the Commission o	
28.				
29.				

EPA SAMPLE NO.

032021DL

	Lab Name: ACCREDITE	D LABS, INC.	Contract:	
***	Lab Code: 11109	Case No.: 7987	SAS No.: SDG No	·:
	Matrix: (soil/water) SOIL	Lab Sample ID: 9	9800150DL
_	Sample wt/vol:		Lab File ID: >	D4219
Į.	Level: (low/med)	LOW	Date Received: 0	01/07/98
	% Moisture: not dec	. 8	Date Analyzed: 0	01/10/98
	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume	:(uL)	Soil Aliquot Vol	ume:(uL)
-	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

74-87-3Chloromethane 54 U 74-83-9Bromomethane 54 U 75-01-4Vinyl Chloride 54 U 75-09-2Methylene Chloride 54 U 67-64-1Acetone 75 D 75-15-0Carbon Disulfide 54 U 75-35-41,1-Dichloroethene 54 U 75-34-31,1-Dichloroethane 54 U 540-59-01,2-Dichloroethane 54 U 67-66-3Chloroform 54 U 107-06-21,2-Dichloroethane 54 U 78-93-32Butanone 54 U 71-55-61,1,1-Trichloroethane 54 U 75-27-4Bromodichloromethane 54 U 75-27-4Bromodichloromethane 54 U 79-01-6Trichloroethene 54 U 10061-01-5			
75-01-4Vinyl Chloride 54 U 75-00-3Chloroethane 54 U 75-09-2Methylene Chloride 54 U 67-64-1Acetone 75 D 75-15-0Carbon Disulfide 54 U 75-35-41,1-Dichloroethene 54 U 540-59-01,2-Dichloroethane 54 U 540-59-01,2-Dichloroethane 54 U 67-66-3		54	U
75-00-3Chloroethane 54 U 75-09-2Methylene Chloride 54 U 67-64-1Acetone 75 D 75-15-0Carbon Disulfide 54 U 75-35-41,1-Dichloroethene 54 U 75-34-31,2-Dichloroethane 54 U 67-66-3Chloroform 54 U 107-06-21,2-Dichloroethane 54 U 78-93-3	74-83-9Bromomethane	54	U
75-09-2Methylene Chloride 54 U 67-64-1	75-01-4Vinyl Chloride	54	U
67-64-1Acetone 75 D 75-15-0Carbon Disulfide 54 U 75-35-41,1-Dichloroethene 54 U 75-34-31,1-Dichloroethane 54 U 540-59-01,2-Dichloroethene (total) 54 U 67-66-3Chloroform 54 U 107-06-21,2-Dichloroethane 54 U 78-93-32-Butanone 54 U 71-55-61,1,1-Trichloroethane 54 U 75-27-4Bromodichloromethane 54 U 78-87-51,2-Dichloropropane 54 U 10061-01-5cis-1,3-Dichloropropene 54 U 79-01-6Trichloroethane 54 U 79-00-51,1,2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-61,1,2-Trichloroethane 54 U 75-25-2Bromoform 54 U 75-25-2	75-00-3Chloroethane	54	U
75-15-0Carbon Disulfide 54 U 75-35-41,1-Dichloroethene 54 U 75-34-31,1-Dichloroethane 54 U 540-59-01,2-Dichloroethene (total) 54 U 67-66-3Chloroform 54 U 107-06-21,2-Dichloroethane 54 U 78-93-32-Butanone 54 U 71-55-61,1,1-Trichloroethane 54 U 75-27-4Bromodichloromethane 54 U 75-27-4Bromodichloromethane 54 U 78-87-51,2-Dichloropropane 54 U 10061-01-5cis-1,3-Dichloropropene 54 U 79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51,1,2-Trichloroethane 54 U 71-43-2Benzene 54 U 1061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4	75-09-2Methylene Chloride	54	U
75-35-41,1-Dichloroethene 54 U 75-34-31,1-Dichloroethane 54 U 540-59-01,2-Dichloroethene (total) 54 U 67-66-3	67-64-1Acetone	75	D
75-34-31, 1-Dichloroethane 54 U 540-59-01, 2-Dichloroethene (total) 54 U 67-66-3Chloroform 54 U 107-06-21, 2-Dichloroethane 54 U 78-93-32-Butanone 54 U 71-55-61, 1, 1-Trichloroethane 54 U 56-23-5Carbon Tetrachloride 54 U 75-27-4Bromodichloromethane 54 U 78-87-51, 2-Dichloropropane 54 U 10061-01-5cis-1, 3-Dichloropropene 54 U 79-01-6Trichloroethane 54 U 79-00-5Trichloroethane 54 U 79-00-51, 1, 2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1, 3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-1	75-15-0Carbon Disulfide	54	U
540-59-01, 2-Dichloroethene (total) 54 U 67-66-3Chloroform 54 U 107-06-21, 2-Dichloroethane 54 U 78-93-32-Butanone 54 U 71-55-61, 1, 1-Trichloroethane 54 U 56-23-5Carbon Tetrachloride 54 U 75-27-4Bromodichloromethane 54 U 78-87-51, 2-Dichloropropane 54 U 10061-01-5cis-1, 3-Dichloropropene 54 U 79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51, 1, 2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1, 3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-1	75-35-41,1-Dichloroethene	54	U
67-66-3Chloroform 54 U 107-06-21, 2-Dichloroethane 54 U 78-93-32-Butanone 54 U 71-55-61, 1, 1-Trichloroethane 54 U 56-23-5Carbon Tetrachloride 54 U 75-27-4Bromodichloromethane 54 U 78-87-51, 2-Dichloropropane 54 U 10061-01-5cis-1, 3-Dichloropropane 54 U 79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51, 1, 2-Trichloroethane 54 U 79-00-51, 1, 2-Trichloroethane 54 U 1061-02-6trans-1, 3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-1	75-34-31,1-Dichloroethane	54	U
107-06-21, 2-Dichloroethane 54 U 78-93-32-Butanone 54 U 71-55-61, 1, 1-Trichloroethane 54 U 56-23-5Carbon Tetrachloride 54 U 75-27-4Bromodichloromethane 54 U 78-87-51, 2-Dichloropropane 54 U 10061-01-5cis-1, 3-Dichloropropene 54 U 79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51, 1, 2-Trichloroethane 54 U 79-00-51, 1, 2-Trichloroethane 54 U 10061-02-6trans-1, 3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51, 1, 2, 2-Tetrachloroethane 54 U 108-80-3	540-59-01,2-Dichloroethene (total)	54	U
78-93-32-Butanone 54 U 71-55-61,1,1-Trichloroethane 54 U 56-23-5Carbon Tetrachloride 54 U 75-27-4Bromodichloromethane 54 U 78-87-51,2-Dichloropropane 54 U 10061-01-5cis-1,3-Dichloropropene 54 U 79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51,1,2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-6Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-890-7Chlorobenzene 54 U 100-41-4Styrene 54 U		54	U
78-93-32-Butanone 54 U 71-55-61,1,1-Trichloroethane 54 U 56-23-5Carbon Tetrachloride 54 U 75-27-4Bromodichloromethane 54 U 78-87-51,2-Dichloropropane 54 U 10061-01-5cis-1,3-Dichloropropene 54 U 79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51,1,2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-6Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-890-7Chlorobenzene 54 U 100-41-4Styrene 54 U	107-06-21,2-Dichloroethane	54	- U
56-23-5		54	U
75-27-4Bromodichloromethane 54 U 78-87-51,2-Dichloropropane 54 U 10061-01-5cis-1,3-Dichloropropene 54 U 79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51,1,2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-5Toluene 19 JD 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5		54	U
78-87-51, 2-Dichloropropane 54 U 10061-01-5cis-1, 3-Dichloropropene 54 U 79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51, 1, 2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1, 3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51, 1, 2, 2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Styrene 54 U	56-23-5Carbon Tetrachloride	54	U
10061-01-5cis-1,3-Dichloropropene 54 U 79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51,1,2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U	75-27-4Bromodichloromethane	54	U
79-01-6Trichloroethene 680 D 124-48-1Dibromochloromethane 54 U 79-00-51,1,2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U	78-87-51,2-Dichloropropane	54	U
124-48-1Dibromochloromethane 54 U 79-00-51,1,2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U		54	
79-00-51,1,2-Trichloroethane 54 U 71-43-2Benzene 54 U 10061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U	79-01-6Trichloroethene	680	D
71-43-2Benzene 54 U 10061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U	124-48-1Dibromochloromethane	54	U
10061-02-6trans-1,3-Dichloropropene 54 U 75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U	79-00-51,1,2-Trichloroethane	54	U
75-25-2Bromoform 54 U 108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U		54	U
108-10-14-Methyl-2-Pentanone 54 U 591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U		54	U
591-78-62-Hexanone 54 U 127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U		54	U
127-18-4Tetrachloroethene 79 D 79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U	108-10-14-Methyl-2-Pentanone	54	U
79-34-51,1,2,2-Tetrachloroethane 54 U 108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U		54	U
108-88-3Toluene 19 JD 108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U		79	D
108-90-7Chlorobenzene 54 U 100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U		54	
100-41-4Ethylbenzene 54 U 100-42-5Styrene 54 U		~ -	JD_
100-42-5Styrene 54 U		54	U
		54	U
1330-20-7Xylene (total) 62 D		54	U
	1330-20-7Xylene (total)	62	D

TEA	SAMPLE	14 (
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Lab Name: ACCREDITED LABS, INC. Contract	:	03-34-35
Lab Code: 11109 Case No.: 7987 SAS No.	: SDG No).:
Matrix: (soil/water) SOIL	Lab Sample ID: 9	800151
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >	D4198
Level: (low/med) LOW	Date Received: 0	1/07/98
% Moisture: not dec. 4	Date Analyzed: 0	1/09/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:(uL)	Soil Aliquot Vol	ume:(uL)
	NTRATION UNITS: or ug/Kg) UG/KG	Q
74-87-3	tal) e 10 ane	10

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TENTATIVEDI IDENTITIED COMPOUNDS	03-34-35
Lab Name: ACCREDITED LABS, INC. Contract:	03 34 33

SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9800151

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4198

Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 4 Date Analyzed: 01/09/98

GC Column: RTX-502 Dilution Factor: 1.0 ID: 0.53 (mm)

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: Number TICs found: 10 (ug/L or ug/Kg) UG/KG

= ,	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	1. 2. 5911046 3. 4. 5911046 5. 6. 17302282 7. 526738 8. 9. 13151343 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	Unknown Hydrocarbon Nonane, 3-methyl- (8CI9CI) Unknown Hydrocarbon Nonane, 3-methyl- (8CI9CI) Unknown Hydrocarbon Nonane, 2,6-dimethyl- (8CI9C Benzene, 1,2,3-trimethyl- (8 Unknown Hydrocarbon Decane, 3-methyl- (8CI9CI) Unknown Hydrocarbon	27.37 28.51 29.43 29.75 30.85	EST. CONC. 100 56 250 80 65 110 87 95 52 170	Q N N N N N N N N
	22. 23. 24. 25. 26. 27. 28. 29.				

1A

EPA	SAMPLE	NO
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VOLATILE ORGANICS ANALYSI	IS DATA SHEET	
Lab Name: ACCREDITED LABS, INC. Contract	t:	033435DL
Lab Code: 11109	.: SDG No).:
Matrix: (soil/water) SOIL	Lab Sample ID: 9	9800151DL
		•
Sample wt/vol: $1.0 (g/mL) G$	Lab File ID: >	D4220
Level: (low/med) LOW	Date Received: 0	1/07/98
% Moisture: not dec. 4	Date Analyzed: 0	1/11/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:(uL)	Soil Aliquot Vol	ume:(uL)
CONCE	ENTRATION UNITS:	v
	L or ug/Kg) UG/KG	Q
74-87-3	otal)_	52 U 52 U 52 U 52 U 52 U 52 U 52 U 52 52 U 52 52 U
78-93-32-Butanone 71-55-61,1,1-Trichloroethane 56-23-5Carbon Tetrachloride 75-27-4Bromodichloromethane 78-87-51,2-Dichloropropane 10061-01-5cis-1,3-Dichloropropen 79-01-6Trichloroethene 124-48-1Dibromochloromethane 79-00-51,1,2-Trichloroethane 71-43-2Benzene	ne5	52 U 52 U 52 U 52 U 52 U 52 U 80 D 52 U 52 U 52 U
10061-02-6trans-1,3-Dichloroprop 75-25-2Bromoform 108-10-14-Methyl-2-Pentanone 591-78-62-Hexanone 127-18-4Tetrachloroethene 79-34-51,1,2,2-Tetrachloroeth 108-88-3Toluene 108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene 1330-20-7Xylene (total)	nane	52 U 52 U 52 U 52 U 52 U 52 U 52 U 52 U

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EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC. Cont	ract:
■Lab Code: 11109 Case No.: 7987 SAS	No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800152
\blacksquare Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4199
Level: (low/med) LOW	Date Received: 01/07/98
Moisture: not dec. 8	Date Analyzed: 01/09/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CAS NO. COMPOUND (1	ONCENTRATION UNITS: ug/L or ug/Kg) UG/KG Q
74-87-3 Chloromethane 74-83-9 Bromomethane 75-01-4 Vinyl Chloride 75-00-3 Chloroethane 75-09-2 Methylene Chloride 67-64-1 Acetone 75-15-0 Carbon Disulfide 75-35-4 1,1-Dichloroethane 75-34-3 1,2-Dichloroethane 540-59-0 1,2-Dichloroethane 67-66-3 Chloroform 107-06-2 1,2-Dichloroethane 78-93-3 2-Butanone 71-55-6 1,1,1-Trichloroetha 56-23-5 Carbon Tetrachlorid 75-27-4 Bromodichloromethan 78-87-5 1,2-Dichloropropane 10061-01-5 cis-1,3-Dichloropropane 10061-01-5 cis-1,3-Dichloropropane 124-48-1 Dibromochloromethan 79-00-5 1,1,2-Trichloroethan 79-00-5 1,1,2-Trichloroethan 79-143-2 Benzene 10061-02-6 trans-1,3-Dichloropropane 108-10-1 4-Methyl-2-Pentanon 591-78-6 2-Hexanone 127-18-4 Tetrachloroethene 79-34-5 1,1,2,2-Tetrachloroethan 108-80-7 Chlorobenzene 100-41-4 Ethylbenzene 100-42-5 Styrene 1330-20-7 Xylene (total)	22

FORM I VOA

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EP	A SA	MPI	LE	NC
	04-0)8-()9	

					04-08-09
Lab Name: A	ACCREDITED	LABS,	INC.	Contract:	

Lab Code: 11109 Case No.: 7987 SAS No.: ____ SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9800152

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4199

Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. Date Analyzed: 01/09/98

GC Column: RTX-502 Dilution Factor: 1.0 ID: 0.53 (mm)

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
156	Ethene, 1,2-dichloro-, (E)-			
2.	Unknown Hydrocarbon	29.33	13	N
3.	Unknown Aromatic	33.62	21	N
4.				
5.				
6.				
7.				
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Lab Name: ACCREDITED LABS, INC. Conti	ract:
Lab Code: 11109 Case No.: 7987 SAS	No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800153
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4200
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 7	Date Analyzed: 01/09/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)
-	**************************************
	ONCENTRATION UNITS: ug/L or ug/Kg) UG/KG Q
74-87-3	11
108-88-3Toluene 108-90-7Chlorobenzene 100-41-4Ethylbenzene 100-42-5Styrene	
1330-20-7Xylene (total)	

EPA	SAMPLE	NC
 04	1-13-14	

						04-13-14
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	

Matrix: (soil/water) SOIL Lab Sample ID: 9800153

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4200

Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 7 Date Analyzed: 01/09/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 3 (ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q ====
1. 2. 556672 3. 4.	Unknown Hydrocarbon Cyclotetrasiloxane, octameth Unknown Aromatic	9.97	12 130 48	N N N
7.				
1. 2. 3.				***************************************
5. 6. 7. 8.				
21.				
5. 6.				
29				

Lab Name: ACCREDITED LABS, INC. Contract	04-33-34
Lab Code: 11109 Case No.: 7987 SAS No.	: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800154
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4230
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 4	Date Analyzed: 01/12/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
	NTRATION UNITS: or ug/Kg) UC/KG O
74-87-3	10 U U U U U U U U U U U U U U U U U U U

EPA	SAMPLE	NC
04	1-33-34	

			04-33-34
Lab Name: ACCREDITED	LABS, INC.	Contract:	
Lab Code: 11109	Case No.: 7987	SAS No.: SDG N	10.:
<pre>Matrix: (soil/water)</pre>	SOIL	Lab Sample ID:	9800154
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4230
Level: (low/med)	LOW	Date Received:	01/07/98
% Moisture: not dec.	4	Date Analyzed:	01/12/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/Kg) UG/KG

AS NUMBER COMPOUND NAME	RT	EST. CONC.	Q
. 76131 Ethane, 1,1,2-trichlor Cyclotetrasiloxane, or Unknown Unknown Aromatic	ro-1,2, ctameth 29.35 33.14 33.69	28 51 5 200	N N N N

Lab Name: ACCREDITE	D LABS, INC.	Contract:		FLFB-0	1
Lab Code: 11109	Case No.: 7987	SAS No.:	SDG No.:		
Matrix: (soil/water) WATER	Lab Sa	mple ID: 980	0155	
Sample wt/vol:	5.0 (g/mL) ML	. Lab Fi	le ID: >D4	210	
Level: (low/med)	LOW	Date Ro	eceived: 01/	07/98	
% Moisture: not dec	•	Date A	nalyzed: 01/	10/98	
GC Column: RTX-502	ID: 0.53 (mm)	Dilutio	on Factor:	1.0	
Soil Extract Volume	:(uL)	Soil A	liquot Volume	e:	_(uL)
CAS NO.	COMPOUND	CONCENTRATION		Q	
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 67-66-3 107-06-2 78-93-3 75-27-4 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-01-6 124-48-1 79-01-6 124-48-1 79-01-6 124-48-1 79-01-6 124-48-1 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 108-88-3 108-90-7 100-41-4 100-42-5	Carbon Disulf1,1-Dichloroe1,2-Dichloroe1,2-DichloroeChloroform1,2-Dichloroe2-Butanone1,1-TrichloCarbon TetracBromodichloro1,2-Dichloroptis-1,3-DichloroetheDibromochloro1,1,2-TrichloBromoformBromoformBromoformTrichloroetheTrichloroetheTrichloroetheTrichloroetheTrichloroetheTrichloroetheTrichloroetheTrichloroetheTrichloroethe	e oride ide thene thane thene (total) thane roethane hloride methane oropropene ne methane roethane hloropropene hloropropene chloroethane	10 10 10 10 10 10 10 10 10 10 10 10 10 1		

EPA	SAMPLE	NO
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Lab Name: ACCREDITED	LABS, INC.	Contract:	
Lab Code: 11109	Case No.: 7987	SAS No.: SDG No).:
Matrix: (soil/water)	WATER	Lab Sample ID: 9	800155
Sample wt/vol:	5.0 (g/mL) M L	Lab File ID: >	D4210
Level: (low/med)	LOW	Date Received: 0	1/07/98
% Moisture: not dec.		Date Analyzed: 0	1/10/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
Number TICs found:	1	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q ====
1.	Unknown	33.68	8	==== N
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0.				

EPA SAMPLE NO.

05-09-10

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

	Lab Name: ACCREDITE	D LABS, INC.	Contract:	
	Lab Code: 11109	Case No.: 7987	SAS No.: SDG	No.:
	Matrix: (soil/water) SOIL	Lab Sample ID:	9800156
	Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4196
	Level: (low/med)	LOW	Date Received:	01/07/98
_	% Moisture: not dec	. 5	Date Analyzed:	01/09/98

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

boll Extract volume. _____(ub) boll Allquot volume. _____(

COMPOUND

GC Column: RTX-502 ID: 0.53 (mm)

CAS NO.

74-87-3-----Chloromethane 10 U U 74-83-9-----Bromomethane 10 75-01-4-----Vinyl Chloride 10 U ับ 75-00-3-----Chloroethane 10 75-09-2-----Methylene Chloride 32 B 67-64-1-----Acetone 10 U 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene U 10 75-34-3----1,1-Dichloroethane 10 U-540-59-0----1,2-Dichloroethene (total) 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane U 10 78-93-3----2-Butanone 10 U ~ 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 U 75-27-4----Bromodichloromethane 10 ΤĪ 78-87-5----1,2-Dichloropropane_ 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6----Trichloroethene 3 124-48-1-----Dibromochloromethane 10 Ū $79-00-5----1,1,2-Trichloroethan\overline{e}$ 10 H 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene 10 Ū 75-25-2----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 1υ U 591-78-6----2-Hexanone U 10 127-18-4----Tetrachloroethene 1 Ó U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene U 10 100-41-4----Ethylbenzene U 10 100-42-5----Styrene U 10 1330-20-7-----Xylene (total) 10 U

EPA	SAMPLE	NC
05	5-09-10	

Lab Name: ACCREDITED	LABS, INC.	Contract:	05-09-10
Lab Code: 11109	Case No.: 7987	SAS No.: SDG N	·.:
Matrix: (soil/water)	SOIL	Lab Sample ID:	9800156
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4196
Level: (low/med)	LOW	Date Received:	01/07/98
% Moisture: not dec.	5	Date Analyzed:	01/09/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: Number TICs found: 3 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4.	Unknown Unknown Unknown Unknown Aromatic	9.86 29.32 33.62	7 8 21	N N N
5. 6. 7.				
9. 10.				
12. 13. 14. 15.				
16. 17. 18.				
21. 22. 23.				
24. 25. 26. 27.				
28. 29. 30.				

EPA SAMPLE NO.

05-16-17

Lab N	Name: ACCREDITE	ED LABS, INC.	Contract:	
Lab C	Code: 11109	Case No.: 7987	SAS No.: SDG No	·.:
Matri	x: (soil/water) SOIL	. Lab Sample ID: 9	800157
		5.0 (g/mL) G	Lab File ID: >	D4231
Level	: (low/med)	LOW	Date Received: 0	01/07/98
% Moi	sture: not dec	. 5	Date Analyzed: 0	01/12/98
GC Co	olumn: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil	Extract Volume	:(uL)	Soil Aliquot Vol	ume:(uL)
•	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KC	Ų
	-	Chloromethane		10 U

74-87-3Chloromethane 10 U 74-83-9Bromomethane 10 U 75-01-4Vinyl Chloride 10 U 75-00-3Chloroethane 10 U 75-09-2Methylene Chloride 4 J 67-64-1Acetone 10 U 75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethane 10 U 75-34-31,1-Dichloroethane 10 U 67-66-3			
74-83-9	74-87-3Chloromethane	10	U
75-00-3		10	U
75-00-3	75-01-4Vinyl Chloride	10	U
75-09-2Methylene Chloride 4 J 67-64-1		10	U
67-64-1		4	J -
75-15-0		10	- U
75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethane 10 U 12-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 108-10-1Bromoform 10 U 108-10-1		10	u
75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethane 10 U 12-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 108-10-1Bromoform 10 U 108-10-1	75-35-41,1-Dichloroethene	10	
540-59-01, 2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21, 2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61, 1, 1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51, 2-Dichloropropane 10 U 10061-01-5cis-1, 3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51, 1, 2-Trichloroethane 10 U 71-43-2Benzene 10 U 1061-02-6trans-1, 3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-1	75-34-31,1-Dichloroethane	10	u
67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 104-43-2Benzene 10 U 1061-02-6trans-1,3-Dichloropropene 10 U 108-10-1Bromoform 10 U 108-10-1	540-59-01,2-Dichloroethene (total	10	U U
78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 79-00-51,1,2-Trichloroethane 10 U 1061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-1		i	C
78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U 56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51,2-Dichloropropane 10 U 10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 79-00-51,1,2-Trichloroethane 10 U 1061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-1		10	U
56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51, 2-Dichloropropane 10 U 10061-01-5cis-1, 3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51, 1, 2-Trichloroethane 10 U 71-43-2Benzene 10 U 1061-02-6trans-1, 3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51, 1, 2, 2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4	78-93-32-Butanone	10	U
56-23-5Carbon Tetrachloride 10 U 75-27-4Bromodichloromethane 10 U 78-87-51, 2-Dichloropropane 10 U 10061-01-5cis-1, 3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51, 1, 2-Trichloroethane 10 U 71-43-2Benzene 10 U 1061-02-6trans-1, 3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51, 1, 2, 2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4	71-55-61,1,1-Trichloroethane	10	U
78-87-51, 2-Dichloropropane 10 U 10061-01-5cis-1, 3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51, 1, 2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1, 3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51, 1, 2, 2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Styrene 10 U		10	U
10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Styrene 10 U 100-42-5Styrene 10 U	75-27-4Bromodichloromethane		U U
10061-01-5cis-1,3-Dichloropropene 10 U 79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Styrene 10 U 100-42-5Styrene 10 U	78-87-51,2-Dichloropropane	10	U
79-01-6Trichloroethene 10 U 124-48-1Dibromochloromethane 10 U 79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5		10	U-U-
79-00-51,1,2-Trichloroethane 10 U 71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methy1-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U		10	U
71-43-2Benzene 10 U 10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U	124-48-1Dibromochloromethane	10	U
10061-02-6trans-1,3-Dichloropropene 10 U 75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U	79-00-51,1,2-Trichloroethane	10	U
75-25-2Bromoform 10 U 108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U			U
108-10-14-Methyl-2-Pentanone 10 U 591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U		10	U
591-78-62-Hexanone 10 U 127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U		10	U
127-18-4Tetrachloroethene 10 U 79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U		10	U
79-34-51,1,2,2-Tetrachloroethane 10 U 108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U		10	U
108-88-3Toluene 10 U 108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U			
108-90-7Chlorobenzene 10 U 100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U			U
100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U			U
100-42-5Styrene 10 U			
			U
1330-20-7Xylene (total) 10 U			
	1330-20-7Xylene (total)		U

EPA	SAMPLE	N(
ΛF	-16-17	

Lab Name: ACCREDITED	LABS, INC.	Contract:	05 10-17
Lab Code: 11109	Case No.: 7987	SAS No.: SDG No).:
Matrix: (soil/water)	SOIL	Lab Sample ID: 9	800157
Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >	D4231
Level: (low/med)	LOW	Date Received: 0	1/07/98
% Moisture: not dec.	5	Date Analyzed: 0	1/12/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
Number TICs found:	4	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Ď
1. 76131 2. 556672 3. 4. 5. 6. 7. 8.	Ethane, 1,1,2-trichloro-1,2, Cyclotetrasiloxane, octameth Unknown Unknown Aromatic	9.97 29.34 33.04 33.68	27 99 12 140	N N N N
0. 11. 2.	i .			
.4. .5. .6. .7. .8.				
9.				
4. 5.				
88. 9.			,	

EPA SAMPLE NO.

06-10-11

	Lab Name: ACCREDITE	D LABS, INC.	Contract:
	Lab Code: 11109		SAS No.: SDG No.:
-	Matrix: (soil/water) SOIL	Lab Sample ID: 9800158
	Sample wt/vol:		Lab File ID: >D4232
	Level: (low/med)	LOW	Date Received: 01/07/98
	% Moisture: not dec.	. 3	Date Analyzed: 01/12/98
-	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor: 1.0
	Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL)
-	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

74-87-3Chloromethane 10 U 74-83-9Bromomethane 10 U 75-01-4Vinyl Chloride 10 U 75-00-3Chloroethane 10 U 75-09-2Methylene Chloride 10 U 67-64-1Acetone 10 U 75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethene 10 U 75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U 71-55-61,1,1-Trichloroethane 10 U
74-83-9Bromomethane 10 U 75-01-4Vinyl Chloride 10 U 75-00-3Chloroethane 10 U 75-09-2Methylene Chloride 10 U 67-64-1Acetone 10 U 75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethene 10 U 75-34-31,2-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U
75-01-4Vinyl Chloride 10 U 75-00-3Chloroethane 10 U 75-09-2Methylene Chloride 10 U 67-64-1Acetone 10 U 75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethene 10 U 75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U
75-00-3Chloroethane 10 U 75-09-2Methylene Chloride 10 U 67-64-1Acetone 10 U 75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethene 10 U 75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U
75-09-2Methylene Chloride 10 U 67-64-1Acetone 10 U 75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethene 10 U 75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U
67-64-1Acetone 10 U 75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethene 10 U 75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U
75-15-0Carbon Disulfide 10 U 75-35-41,1-Dichloroethene 10 U 75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U
75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U
75-34-31,1-Dichloroethane 10 U 540-59-01,2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U
540-59-01, 2-Dichloroethene (total) 10 U 67-66-3Chloroform 10 U 107-06-21, 2-Dichloroethane 10 U 78-93-32-Butanone 10 U
107-06-21,2-Dichloroethane 10 U 78-93-32-Butanone 10 U
78-93-32-Butanone 10 U
71-55-61 1 1-Trichloroethane 10 U
1,1,1 11,1 11,000
56-23-5Carbon Tetrachloride 10 U
75-27-4Bromodichloromethane 10 U
78-87-51,2-Dichloropropane 10 U
10061-01-5cis-1,3-Dichloropropene 10 U
79-01-6Trichloroethene 10 U
124-48-1Dibromochloromethane 10 U
79-00-51,1,2-Trichloroethane 10 U
71-43-2Benzene
10061-02-6trans-1,3-Dichloropropene 10 U
75-25-2Bromoform10
108-10-14-Methyl-2-Pentanone 10 U
591-78-62-Hexanone
127-18-4Tetrachloroethene 10 U
79-34-51,1,2,2-Tetrachloroethane 10 U
108-88-3Toluene10 U_
108-90-7Chlorobenzene 10 U
100-41-4Ethylbenzene 10 U
100-42-5Styrene
1330-20-7Xylene (total) 10 U

EPA	SAMPLE	NO
		140
0.6	5-10-11	1

Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109	7 SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800158
Sample wt/vol: 5.0 (g/mL)	G Lab File ID: >D4232
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 3	Date Analyzed: 01/12/98
GC Column: RTX-502 ID: 0.53 (m	m) Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
	CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Number TICs found: 4

RTCAS NUMBER COMPOUND NAME EST. CONC. Q ____ Ethane, 1,1,2-trichloro-1,2, Unknown Hydrocarbon 1. 76131 9.96 30 N 29.38 34 Ν Unknown 33.08 5 Ν Unknown Aromatic 33.67 120 N 9. 10.__ 11.__ 12.__ 13.___ 14._ 15.__ 16.__ 17._ 18.__ 19.__ 20.__ 21._ 22. 23._ 24. 26. 27. 28. 29. 30.

06-20-22	
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Lab Name: ACCREDITED	LABS, INC.	Contract:
Lab Code: 11109	Case No.: 7987	SAS No.: SDG No.:
Matrix: (soil/water)	SOIL	Lab Sample ID: 9800159
Sample wt/vol:		Lab File ID: >D4233
Level: (low/med)	LOW	Date Received: 01/07/98
% Moisture: not dec.	7	Date Analyzed: 01/12/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane]	.1 U
	Bromomethane]	1 TU
	Vinyl Chloride	1	1 U
	Chloroethane		1 -0-1
75-09-2	Methylene Chloride	1	.1
67-64-1		1	.1 U
	Carbon Disulfide	1	1U
	1,1-Dichloroethene]	1
75-34-3	1,1-Dichloroethane]	1 U
540-59-0	1,2-Dichloroethene (total)	1	1 U
	Chloroform	1	. 1 U
107-06-2	1,2-Dichloroethane	1	1 U
78-93-3	2-Butanone	1	1 U
71-55-6	1,1,1-Trichloroethane	1	.1 U
	Carbon Tetrachloride	1	.1 U
75-27-4	Bromodichloromethane	1	1 U
78-87-5	1,2-Dichloropropane	1	1 0
	cis-1,3-Dichloropropene	1	1 U
	Trichloroethene	1	1 U
124-48-1	Dibromochloromethane	1	1
79-00-5	1,1,2-Trichloroethane	1	1 U
71-43-2		1	1 0
	trans-1,3-Dichloropropene	1	1 U
75-25-2		1	1 U
	4-Methy1-2-Pentanone	1	1 U
	2-Hexanone		1 U
	Tetrachloroethene		1
	1,1,2,2-Tetrachloroethane		1U
108-88-3			1 U
	Chlorobenzene_		1
	Ethylbenzene		1U
100-42-5			1 U
1330-20-7	Xylene (total)	1	1 U

EPA	SAMPLE	NC
 		_
0.6	5-20-22	
0.0	20-22	

ICMIAIIVEDI	IDENTIFIED COMPOUNDS	06-20-22
Lab Name: ACCREDITED LABS, INC.	Contract:	
Lab Code: 11109 Case No.: 7987	SAS No.: SDG No	·.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9	9800159

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4233

Level: (low/med) LOW Date Received: 01/07/98

% Moisture: not dec. 7 Date Analyzed: 01/12/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ____(uL) Soil Extract Volume: ____(uL)

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131 2. 556672 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	COMPOUND NAME ===================================		EST. CONC. 18 130 260	Q ====================================
26. 27. 28. 29.				

EPA SAMPLE NO.

07-10-11

Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800160
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4234
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 14	Date Analyzed: 01/12/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
74-87-3	12

79-00-5----1,1,2-Trichloroethane

108-10-1----4-Methyl-2-Pentanone

127-18-4----Tetrachloroethene

10061-02-6----trans-1,3-Dichloropropene

79-34-5----1,1,2,2-Tetrachloroethane

100-41-4-----Ethylbenzene

71-43-2----Benzene

108-88-3-----Toluene

100-42-5----Styrene

75-25-2-----Bromoform

591-78-6----2-Hexanone

108-90-7-----Chlorobenzene

1330-20-7-----Xylene (total)

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	07	7-10-11	1

Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800160
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4234
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 14	Date Analyzed: 01/12/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
Number TICs found: 2	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1. 76131 2. 3.	Ethane, 1,1,2-trichloro-1,2, Unknown	i e	24	N N
4. 5.				
6. 7. 8.				
9. 10.				
11.				
13. 14. 15.			VIIII	
16.				
18. 19. 20.				
21.				
23.				
25. 26. 27.				
28.				
30.				

EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800161
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4235
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 6	Date Analyzed: 01/12/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0

Soil Aliquot Volume: (uL) Soil Extract Volume: ____(uL)

COMPOUND

CAS NO.

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q 74-87-3-----Chloromethane 11 U 74-83-9-----Bromomethane 11 U 75-01-4-----Vinyl Chloride 1.1 U 75-00-3-----Chloroethane 11 11 75-09-2----Methylene Chloride J 9 67-64-1-----Acetone 11 Ū 75-15-0-----Carbon Disulfide 11 H 75-35-4----1,1-Dichloroethene 11 U 75-34-3-----1,1-Dichloroethane_ 11 U 540-59-0----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 U 107-06-2----1, 2-Dichloroethane 1178-93-3----2-Butanone 11 U 71-55-6----1,1,1-Trichloroethane U 11 56-23-5-----Carbon Tetrachloride 11 U 75-27-4-----Bromodichloromethane 11. U U^{-} 78-87-5----1,2-Dichloropropane 1 1 10061-01-5----cis-1,3-Dichloropropene 11 Ū 79-01-6----Trichloroethene 14 124-48-1-----Dibromochloromethane U 11 79-00-5----1,1,2-Trichloroethane 11 U 71-43-2----Benzene 11 U 10061-02-6----trans-1,3-Dichloropropene 11 U 75-25-2-----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone 11 u 591-78-6----2-Hexanone 11 U 127-18-4----Tetrachloroethene 11 [1] 79-34-5----1,1,2,2-Tetrachloroethane 11 H 108-88-3-----Toluene 11 H 108-90-7-----Chlorobenzene H 11 100-41-4-----Ethylbenzene U 11 100-42-5-----Styrene 11 U 1330-20-7-----Xylene (total) U

EP	A S	SAM	PLE	NC

Lab Name: ACCREDITED LABS, INC.	Contract: 07-14-16
Lab Code: 11109 Case No.: 7987	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800161
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4235
Level: (low/med) LOW	Date Received: 01/07/98
% Moisture: not dec. 6	Date Analyzed: 01/12/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
Number TICs found: 3	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	5
1. 76131 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	Ethane, 1,1,2-trichloro-1,2, Unknown Hydrocarbon Unknown Aromatic		31 30 30 30	N N N N N N N N N N N N N N N N N N N
13. 14. 15. 16. 17. 18. 19.				
20. 21. 22. 23. 24. 25. 26.				
28. 29. 30.				

,	Lab Name: ACCREDITED LABS, INC.	Contract:	07-18-20
	Lab Code: 11109	SAS No.: SDG No	o.:
	Matrix: (soil/water) SOIL	Lab Sample ID: 9	9800162
	Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >	D4236
	Level: (low/med) LOW	Date Received: 0	01/07/98
	% Moisture: not dec. 4	Date Analyzed: C	01/12/98
-	GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume:(uL)	Soil Aliquot Vol	ume:(uL)
-		CONCENTRATION UNITS:	

(ug/L or ug/Kg) UG/KG Q

CAS NO. COMPOUND

		1
74-87-3Chloromethane	10	U
74-83-9Bromomethane	10	U
75-01-4Vinyl Chloride	10	-()-
75-00-3Chloroethane	LU	U
75-09-2Methylene Chloride	2	J
67-64-1Acetone	10	
75-15-0Carbon Disulfide	10	U
75-35-41,1-Dichloroethene	10	U
75-34-31,1-Dichloroethane	10	U U
540-59-01,2-Dichloroethene (total)	10	U
67-66-3Chloroform	10	U
107-06-21,2-Dichloroethane	10	U
78-93-32-Butanone	10	U
71-55-61,1,1-Trichloroethane	10	U
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	1.0	IJ
78-87-51,2-Dichloropropane	1 ()	U
10061-01-5cis-1,3-Dichloropropene	10	U
79-01-6Trichloroethene	10	U
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	10	U
10061-02-6trans-1,3-Dichloropropene	10	U
75-25-2Bromoform	10	U
108-10-14-Methyl-2-Pentanone	10	U
591-78-62-Hexanone	10	U
127-18-4Tetrachloroethene	10	U
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	U
108-90-7Chlorobenzene	10	
100-41-4Ethylbenzene	10	$\left -\frac{U}{U} - \right $
100-42-5Styrene	. 10	
1330-20-7Xylene (total)	10	U

EPA	SAMPLE	NC

Lab Name: ACCREDITED	LABS, INC.	Contract:	07-18-20
Lab Code: 11109	Case No.: 7987	SAS No.: SDG N	lo.:
Matrix: (soil/water)	SOIL	Lab Sample ID:	9800162
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4236
Level: (low/med)	LOW	Date Received:	01/07/98
% Moisture: not dec.	4	Date Analyzed:	01/12/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	: 1.0

CONCENTRATION UNITS:

Soil Aliquot Volume: (uL)

Number TICs found: 3

Soil Extract Volume: ____(uL)

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q ====
1. 2. 556672 3. 4. 5.	Unknown Hydrocarbon Cyclotetrasiloxane, octameth Unknown Aromatic		19 86 180	N N N
6. 7. 8. 9.				
1. 2. 3. 4. 5.				
6. 7. 8. 9.				
1. 2. 3. 4.				
5. 6. 7. 8.				

EPA SAMPLE NO.

07-	22	-2	4

COMPOUND

CAS NO.

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

10 [] 74-87-3-----Chloromethane U 74-83-9-----Bromomethane 10 10 Ή 75-01-4-----Vinyl Chloride 10 75-00-3-----Chloroethane 3 75-09-2----Methylene Chloride 67-64-1-----Acetone II 10 75-15-0-----Carbon Disulfide U 10 75-35-4-----1,1-Dichloroethene U 10 10 U 75-34-3-----1,1-Dichloroethane 10 U 540-59-0----1,2-Dichloroethene (total) 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 78-93-3----2-Butanone 10 U U 71-55-6-----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 75-27-4----Bromodichloromethane \perp () H 78-87-5----1,2-Dichloropropane_ 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6----Trichloroethene 10 10 U 124-48-1-----Dibromochloromethane 79-00-5----1,1,2-Trichloroethane 10 10 71-43-2-----Benzene 10061-02-6----trans-1,3-Dichloropropene 10 Ū 10 H 75-25-2-----Bromoform 108-10-1-----4-Methyl-2-Pentanone10 U 10 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene U 10 79-34-5----1,1,2,2-Tetrachloroethane 10 108-88-3-----Toluene [1] U 108-90-7-----Chlorobenzene 10 Ū 10 100-41-4----Ethylbenzene 10 U 100-42-5----Styrene U 1330-20-7-----Xylene (total)

EPA	SAMPLE	NO

Lab Name: ACCREDITED	LABS, INC.	Contract:	07-22-24
Lab Code: 11109	Case No.: 7987	SAS No.: SDG N	No.:
Matrix: (soil/water)	SOIL	Lab Sample ID:	9800163
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4237
Level: (low/med)	LOW	Date Received:	01/07/98
% Moisture: not dec.	3	Date Analyzed:	01/12/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	: 1.0

Soil Extract Volume: (uL)

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Soil Aliquot Volume: (uL)

CAS NUMBER EST. CONC. COMPOUND NAME RT_____ ____ 9.91 9 Unknown N 556672 29.37 2. Cyclotetrasiloxane, octameth 50 Ν 3._ Unknown Aromatic 33.66 110 Ν 5. 6. 9. 10. 11. 12. 13.__ 14. 15. 16._ 17._ 18._ 19._ 20._ 21.__ 22._ 23. 24._ 25._ 26._ 27._ 28._ 29._ 30.

Lab N	ame: ACCREDITE	D LABS, INC.	Contract:		VBLKD04
Lab C	ode: 11109	Case No.: 7981	LMC SAS No.:	SDG No.:	
Matri:	x: (soil/water) SOIL	Lab S	Sample ID: VBL	KD04
Sample	e wt/vol:	5.0 (g/mL)	G Lab F	Tile ID: >D41	169
Level	: (low/med)	LOW	Date	Received: 01/0	08/98
% Mois	sture: not dec	. 0	Date	Analyzed: 01/0	08/98
GC Co	lumn: RTX-502	ID: 0.53 (mm) Dilut	ion Factor:	1.0
Soil I	Extract Volume	:(uL)	Soil	Aliquot Volume	e:(uL
.	CAS NO.	COMPOUND	CONCENTRATI		Q
	74-83-9 75-01-4 75-00-3 75-09-2 75-09-2 75-15-0 75-35-4 75-35-4 75-34-3 75-34-3 76-66-3 78-93-3 75-27-4 78-87-5 79-01-6 79-01-6 124-48-1 79-00-5 124-48-1 79-01-6 75-25-2 1061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 108-88-3 108-90-7 100-41-4 100-42-5	Carbon Disu1,1-Dichlor1,2-Dichlor1,2-Dichlor1,2-Dichlor2-Butanone1,1,1-TrichCarbon TetrBromodichlor1,2-Dichlortis-1,3-DichlorTichloroetDibromochlor1,1,2-TrichBenzenetrans-1,3-DBromoform4-Methyl-22-HexanoneTetrachloroeTolueneChlorobenzene	e ide e hloride lfide oethene oethane oethane loroethane achloride romethane opropane hloropropene hene romethane loroethane ethene rachloroethane ethene rachloroethane	10 10 10 10 10 10 10 10 10 10 10 10 10 1	

EPA	SAMPLE	NO.

Lab Name: ACCREDITED	LABS, INC. Co	ntract:	VBLKD04
Lab Code: 11109	Case No.: 1987 Lmc S	AS No.: SDG No).:
Matrix: (soil/water)	SOIL	Lab Sample ID: V	BLKD04
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	D4169
Level: (low/med)	LOW	Date Received: (01/08/98
% Moisture: not dec.	0	Date Analyzed: (01/08/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
Number TICs found:	1	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131 2.	1	9.83	55	N ————
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	Lab Name: ACCREDITE	D LABS, INC.	Contract:	
	Lab Code: 11109	Case No.: 7987 LMC	SAS No.: SDG No	o.:
	Matrix: (soil/water) SOIL	Lab Sample ID: V	/BLKD05
	Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4192
	Level: (low/med)	LOW	Date Received: (01/09/98
	% Moisture: not dec	. 0	Date Analyzed: (01/09/98
-	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume	:(uL)	Soil Aliquot Vol	ume:(uL)
ست	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
-				1

74-87-3Chloromethane	10	U
74-83-9Bromomethane	10	U
75-01-4Vinyl Chloride	10	U
75-00-3Chloroethane	10	U
75-09-2Methylene Chloride	8	J
67-64-1Acetone	7 28	
75-15-0Carbon Disulfide	10	U
75-35-41,1-Dichloroethene	10	U
75-34-31,1-Dichloroethane	10	U
540-59-01,2-Dichloroethene (total)	10	U
67-66-3Chloroform	10	U
107-06-21,2-Dichloroethane	10	U
78-93-32-Butanone	10	U
71-55-61,1,1-Trichloroethane	10	U
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	10	U
78-87-51,2-Dichloropropane	10	U
10061-01-5cis-1,3-Dichloropropene	10	U
79-01-6Trichloroethene	10	U
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	10	U
10061-02-6trans-1,3-Dichloropropene	10	U
75-25-2Bromoform_	10	U
108-10-14-Methyl-2-Pentanone	10	U
591-78-62-Hexanone	10	U
127-18-4Tetrachloroethene	10	U
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	U
108-90-7Chlorobenzene	10	U
100-41-4Ethylbenzene	10	UU
100-42-5Styrene	. 10	U
1330-20-7Xylene (total)	10	U
	1	

	EPA	SAMPLE	NC
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Lab Name: ACCREDITED	LABS, INC.	Contract:	VBLKD05
Lab Code: 11109	Case No.: 7987 LMC	SAS No.: SDG No	·.:
Matrix: (soil/water)	SOIL	Lab Sample ID: V	BLKD05
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	·D4192
Level: (low/med)	LOW	Date Received: (1/09/98
% Moisture: not dec.	0	Date Analyzed: 0	1/09/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
Number TICs found:	0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	

		RT	EST. CONC.	Q
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Lab Name: ACCREDITE	LABS, INC.	Contract:		VBLKD06
Lab Code: 11109	Case No.: 7987 Luc	SAS No.:	SDG No.	. :
Matrix: (soil/water)	SOIL	Lab Sa	ample ID: VE	BLKD06
Sample wt/vol:	5.0 (g/mL) G	Lab F	ile ID: >[04209
Level: (low/med)	LOW	Date I	Received: 01	1/10/98
% Moisture: not dec.	0	Date A	Analyzed: 01	1/10/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilut	ion Factor:	1.0
Soil Extract Volume:	(uL)	Soil A	Aliquot Volu	ume:(uL)
CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/		Q
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 67-66-3 67-66-3 78-93-3 75-27-4 78-87-5 79-01-6 79-01-6 79-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 79-34-5 108-88-3 108-90-7 100-41-4 100-42-5	Carbon Disulfice1,1-Dichloroeth1,2-Dichloroeth1,2-Dichloroeth2-Butanone1,1-TrichloroethCarbon TetrachBromodichlorome1,2-Dichloroprocis-1,3-DichloroethDibromochlorome1,1,2-TrichloroethBenzenetrans-1,3-DichloroethBromoform4-Methyl-2-Pent2-HexanoneTetrachloroethe1,1,2,2-TetrachTolueneChlorobenzeneEthylbenzene	de nene nane nane nane oethane loride ethane copropene ethane loropropene ethane	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10

LPA	SAMPLE	ИО	
1/1	ITVDAC		

Lab Name: ACCREDITED LABS, INC. Contra	VBLKD06
Lab Code: 11109	
Matrix: (soil/water) SOIL	Lab Sample ID: VBLKD06
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >D4209
Level: (low/med) LOW	Date Received: 01/10/98
% Moisture: not dec. 0	Date Analyzed: 01/10/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
	CENTRATION UNITS: J/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, I	NC. Contract:	Annual Market Control of the Control	
Lab Code: 11109 Case No.			lo.:
Matrix: (soil/water) SOIL		Lab Sample ID:	VBLKD07
Sample wt/vol: 5.0 (g/mL) G	Lab File ID:	>D4227
Level: (low/med) LOW		Date Received:	01/12/98
% Moisture: not dec. 0		Date Analyzed:	01/12/98
GC Column: RTX-502 ID: 0.	53 (mm)	Dilution Factor	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	olume:(uL)
CAS NO. COMPO		TRATION UNITS: or ug/Kg) UG/KG	Q
74-87-3	methane Chloride oethane lene Chloride ne n Disulfide ichloroethene ichloroethane ichloroethane anone -Trichloroethane dichloromethane ichloropropane ,3-Dichloropropene loroethene mochloromethane -Trichloroethane ichloropropane ,3-Dichloropropene loroethene mochloromethane -Trichloroethane hyl-2-Pentanone	al)	10

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127-18-4----Tetrachloroethene

100-41-4-----Ethylbenzene 100-42-5-----Styrene 1330-20-7------Xylene (total)

79-34-5-----1,1,2,2-Tetrachloroethane 108-88-3-----Toluene 108-90-7-----Chlorobenzene

EPA	SAMPLE	NC
		7400
VI	BLKD07	

Lab Name: ACCREDITED	LABS, INC. Contract	
Lab Code: 11109	Case No.: 7987 LMc SAS No.	: SDG No.:
Matrix: (soil/water)	SOIL	Lab Sample ID: VBLKD07
Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >D4227
Level: (low/med)	LOW	Date Received: 01/12/98
% Moisture: not dec.	0	Date Analyzed: 01/12/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL)
	CONCE	NTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Make the speed what their region while their region while their region while some court gate that you when their region of the some region while their regions while their regions when their regions were the some regions and their regions when the regions were the regions where the regions were the regions where the regi		The state of the s	
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Lab Name: ACCREDITED LABS, INC. Contra	VBLKC84
Lab Code: 11109 Case No.: 7987 LMC SAS N	No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: VBLKC84
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >C6551
Level: (low/med) LOW	Date Received: 01/14/98
% Moisture: not dec. 0	Date Analyzed: 01/14/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
	NCENTRATION UNITS: g/L or ug/Kg) UG/KG Q
74-87-3	10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U

EPA SAMPLE NO.

VBLKC84

Lab Name: ACCREDITED LA	ABS, INC. Contract	:
Lab Code: 11109 Cas	se No.: 7987 LMC SAS No.	: SDG No.:
Matrix: (soil/water) SC	OIL	Lab Sample ID: VBLKC84
Sample wt/vol: 5.	.0 (g/mL) G	Lab File ID: >C6551
Level: (low/med) LC	OW	Date Received: 01/14/98
% Moisture: not dec.	0	Date Analyzed: 01/14/98
GC Column: RTX-502 ID	D: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL)
Number TICs found:		NTRATION UNITS: or ug/Kg) UG/KC

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ACC	REDITED_LABS_INC	Contract:	•
Lab Code:	Case No.: 79	87_ SAS No.:	SDG No.:7987
SOW No.: ILMO	3.0	•	
ON NO. III-10	EPA Sample No. FLFB-01 02(8-9) 02(8-9) 03(18-1 05(16-1 05(9-10 06(10-1 06(20-2 07(10-1 07(14-1 07(18-2 07(18-2 07(18-2 07(22-2 08(10-1 08(22-2 10(17-1	Lab Sample ID 9800155 9800143 9800143D 9800143S 9800149 9800157 9800156 9800159 9800160 9800161 9800162 9800162D 9800163 9800250 9800255	
ere ICP inte	celement corrections	applied ?	Yes/No YES
	ground corrections ag		Yes/No YES
	were raw data genera ion of background cor		Yes/No NO_
omments:			
onditions of ther than the	the contract, both to conditions detailed ppy data package and	is in compliance with the confically and for compliance of the computer-readable rized by the Laboratory	pleteness, for e data contained le data submitted Manager or the
n floppy disk	ignee, as verified by	the following signatur	re.
n floppy disk	gnee, as verified by	Name:	re.

EPA SAMPLE NO.

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P \mathbf{F}^{-}

P P^{-}

 $C\overline{V}$

P__ P

 \mathbf{F}^{-}

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0.41

2.4

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В

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 $1.6|\overline{B}$

4.6 B

Lab Name: ACCR	EDITED_LABS	_INC	Contract: _				02(8-9)
Lab Code:	Ca	se No.: 79	87 SAS No.	:		S	DG No.: 7987
Matrix (soil/w	ater): SOIL	-		L	ab Samp	le :	ID: 9800143
Level (low/med): LOW_			D	ate Rece	eiv	ed: 01/07/98
% Solids:	_96.	8					
Co.	ncentration	Units (ug	/L or mg/kg dry	γV	weight)	: M	G/KG
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7	Aluminum_ Antimony_ Arsenic_ Barium_ Beryllium	1320 5.4 4.4 4.1 0.10	$\overline{\mathtt{B}}$	N	P P P P P P P P P P P P P P P P P P P	
	7///0_/3_9	Cadmium	0.76	TT	NT I	ס	1

7440-70-2

7440-47-3

7440-48-4

7440-50-8

7439-89-6

7439-92-1

7439-95-4

7439-96-5

7439-97-6

7440-02-0

7440-09-7

7782-49-2

7440-22-4

Calcium

Cobalt

Copper

Iron

Lead

Chromium

Magnesium

Manganese

Potassium

Selenium Silver

Cyanide

Mercury_

Nickel

205 B P^{-} 7440-23-5 Sodium F___ Thallium 0.29 U 7440-28-0 P_ P 7440-62-2 Vanadium 7.1 В N 7440-66-6 Zinc 5.9 N* c_

Color	Before:	BROWN	Clarity	Before:	OPAQUE	Texture:	MEDIUM
Color	After:	COLORLESS	Clarity	After:	CLEAR_	Artifacts:	YES
Commer	nts:						
				······			

EPA SAMPLE NO.

 \mathbf{F}^{-}

 P^{-}

 $_{\rm P}^-$

 $C\overline{V}$

P_P

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9.0

1120

86.1

0.15

97.3

379 B

137 B

0.30 U

6.7 B

28.6

0.53

0.43 U

3.5

		ziioziozinizo .				, —	
Lab Name: ACCR	EDITED_LABS	_INC	Contract: _		***************************************		03(18-19)
Lab Code:	Ca	se No.: 79	87 SAS No.	: .		s	DG No.: 7987
Matrix (soil/w	ater): SOIL	_		L	ab Samp	le	ID: 9800149
Level (low/med): LOW_			D	ate Rec	eiv	ed: 01/07/98
% Solids:	_93.	1					
Co	ncentration	Units (ug	/L or mg/kg dry	y v	weight)	: M	G/KG
ų»	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5 7440-36-0 7440-38-2 7440-39-3	Aluminum_ Antimony_ Arsenic_ Barium_	2840 5.7 8.3 21.9	Ē	E*	P P F P	
-	7440-41-7 7440-43-9 7440-70-2 7440-47-3	Beryllium Cadmium Calcium Chromium	0.82 10300 13.3	U -	N N E* N*	P P P P P P P P P P P P P P P P P P P	
	7440-48-4 7440-50-8	Cobalt	2.2 20.4 6970	В	NN	P_ P_	

Lead

Magnesium

Manganese Mercury

Potassium

Selenium

Thallium

Vanadium -

Cyanide

Nickel

Silver

Sodium

Zinc

7439-92-1

7439-95-4

7439-96-5

7439-97-6

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

7440-62-2

7440-66-6

Color Before: BROWN Clarity Before: OPAQUE Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES

Cor	nments:		•

ab Name: ACCI	FLFB-01					
ab Code:	Ca	SDG No.: 7987_				
trix (soil/w	water): WATE	2R		L	ab Sampl	e ID: 9800155
evel (low/med	l): LOW_			D	ate Re c e	ived: 01/07/98
Solids:	0.	0				
Co	ncentration	Units (ug	/L or mg/kg dr	У 1	weight):	UG/L_
	CAS No.	Analyte	Concentration	С	Q I	<u> </u>
	7429-90-5	Aluminum	34.5	Ū	E*	
	7440-36-0	Antimony	27.1			P_
	7440-38-2	Arsenic	2.3			F_
	7440-38-2	Barium	0.80			F_
	7440-39-3	Beryllium	0.20			
	7440-41-7	Cadmium	3.9			2
	7440-70-2	Calcium	230			5-
	7440-70-2	Chromium	7.1			5-
	7440-47-3	Cobalt	6.4			- -
	7440-48-4	Copper	5.6			5-
	7439-89-6	Iron	57.0			5-
	7439-83-0	Lead	1.5			-
	7439-95-4	Magnesium	45.4			5-
	7439-96-5	Manganese	1.0			5-
	7439-97-6	Mercury	1.0	U		₽
	7440-02-0	Nickel	7.3	-	· — — ·	e l
	7440-02-0	Potassium	947		¹ \	5-
	7782-49-2	Selenium	2.0			- -
	7440-22-4	Silver	7.6		i	5-
	7440-23-5	Sodium	327		'\	p_
	7440-28-0	Thallium	1.4		;	
	7440-62-2		5.8		$\left \frac{N}{N} \right $	<u></u>
	7440-66-6	Zinc	6.8		\n*	
		Cyanide	0.80			
				_		_
lor Before:	COLORLESS	Clarit	y Before: CLE	AR_		Texture:
lor After:	COLORLESS	Clarit	y After: CLEA	AR_	_ 2	Artifacts:

•	INORGANIC ANALYSES DATA SHEET						
wiab Name: ACC	REDITED_LABS	_INC	Contract: _		05(9-	10)	
Lab Code:	SDG No.:	7987					
Matrix (soil/	water): SOIL	<u>'</u> _		Lab Sam	ple ID: 9800)156	
Level (low/med	d): LOW_			Date Re	ceived: 01/0	7/98	
% Solids:	_94.	6					
· Co	oncentration	Units (ug	/L or mg/kg dr	y weight): MG/KG		
•	CAS No.	Analyte	Concentration	C Q	М		
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-50-8 7439-92-1 7439-95-4 7439-95-4 7439-96-5 7439-97-6 7440-02-0 7440-02-0 7440-23-5 7440-28-0 7440-66-6	Aluminum_Antimony_Arsenic_Barium_Beryllium Cadmium_Calcium_Chromium_Cobalt_Copper_Iron_Lead_Magnesium Manganese Mercury_Nickel_Potassium Selenium_Silver_Sodium_Thallium_Vanadium_Zinc_Cyanide_Carium_Sinc_Cyanide_Carium_Sinc_Carium_Carium_Companide_Carium_Carium_Companide_Carium_Carium_Companide_Carium_Carium_Companide_Carium_Carium_Carium_Companide_Carium_Ca	5000 2.1 450 43.1 0.31 1.5 239 0.40 1.9 113 0.28 5.1 12.7	U	P P P P P P P P P P P P P P P P P P P		
Color Before:	BROWN	Clarit	y Before: OPAQ	UE	Texture:	MEDIUM	
Color After:	COLORLESS	Clarit	y After: CLEA	IR_	Artifacts:	YES	
Comments:					,		

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

						,	
Lab Name: ACC	CREDITED_LABS	_INC	Contract: _				05(16-17)
Lab Code:	Ca	se No.: 79	87 'SAS No.	:		SDO	G No.: 7987
Matrix (soil,	/water): SOIL	<u>'_</u>		L	ab Samp	le II	D: 9800157
Level (low/me	ed): LOW_	····		Da	ate Rec	eive	d: 01/07/98
% Solids:	_95.	5					
C	Concentration	Units (ug	/L or mg/kg dr	УΊ	weight)	: MG/	/KG
			I	T		<u> </u>	
	CAS No.	Analyte	Concentration	С	Q	м	
	7429-90-5	Aluminum	2360	-	E*	${P}$	
	7440-36-0	Antimony	5.6			P-	
	7440-38-2	Arsenic	3.8			F-	
	7440-39-3	Barium	9.6	\overline{B}	N	P-	
	7440-41-7	Beryllium		1 -		P_	
		Cadmium	0.81)	N	P-	
	7440-70-2	Calcium	384	1		P-	
	7440-47-3	Chromium	10.3		N*	P	
	7440-48-4	Cobalt	1.3		N	P_	
	7440-50-8	Copper	23.6		N	P^-	
	7439-89-6	Iron	5720	-	E*	P	
	7439-92-1	Lead	4.0	_	SN	F	
	7439-95-4	Magnesium	435	\overline{B}	E*	P	
	7439-96-5	Manganese			EN	P	
	7439-97-6	Mercury	0.10	Ū	N	c⊽	
	7440-02-0	Nickel	3.3		N	P	
	7440-09-7	Potassium	388	В		$ P^- $	
	7782-49-2	Selenium	0.39			F_	
	7440-22-4	Silver	3 /		N	D_	

Color	Before:	BROWN	Clarity	Before:	OPAQUE	Texture:	MEDIUM
Color	After:	YELLOW	Clarity	After:	CLEAR_	Artifacts:	YES
Comme	nts:					v	
			***************************************	***************************************			

7440-23-5

7440-28-0

7440-62-2

7440-66-6

Sodium

Zinc

Thallium

Vanadium -

Cyanide

102 B

P_ P_

N

N*

0.27 U

29.9

4.8 B

 $0.04 \overline{B}$

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

_ab Name: ACCREDITED	LABS_INC Contract: _	06(10-11)
Tab Code:	Case No.: 7987 SAS No.	SDG No.: 7987
Matrix (soil/water):	SOIL_	Lab Sample ID: 9800158
_evel (low/med):	LOW	Date Received: 01/07/98
% Solids:	_96.9	
Concentra	ation Units (ug/L or mg/kg dry	weight): MG/KG

						_	
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	1860	-	E*	P	
	7440-36-0	Antimony	5.4	Ū	N	P	
	7440-38-2	Arsenic	3.0			F	
	7440-39-3	Barium	8.9	\overline{B}	N	P	
	7440-41-7	Beryllium	0.12	В	N	P	
	7440-43-9	Cadmium	0.77	U	N	P	ĺ
	7440-70-2	Calcium	318	В	E*	P	İ
	7440-47-3	Chromium	4.1		N*	P	
	7440-48-4	Cobalt	2.3	B	N	P_	
	7440-50-8	Copper	3.0	В	N	P_	
	7439-89-6	Iron	3630		E*	P	
	7439-92-1	Lead	3.3		N	F	
	7439-95-4	Magnesium	333	\overline{B}	E*	P	
	7439-96-5	Manganese	84.5		EN	P_	
	7439-97-6	Mercury	0.28	_	N	CV	
	7440-02-0	Nickel	1.7	B	N	P	
	7440-09-7	Potassium	316	В		P	
	7782-49-2	Selenium	0.40	U		F	
	7440-22-4	Silver -	1.7	В	N	P^-	
	7440-23-5	Sodium	106	В		p ⁻	
	7440-28-0	Thallium	0.28	U		F	
į	7440-62-2	Vanadium_	3.3	В	N	P^-	
	7440-66-6	Zinc	5.9		N*	P	
		Cyanide	0.02	Ū		c_	
-				-		-	

Color Before	e: BROWN	Clarity Before:	OPAQUE	Texture:	MEDIUM
Color After:	COLORLESS	Clarity After:	CLEAR_	Artifacts:	YES
Comments:					
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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab	Name:	ACCREDITED_LABS_INC Contract:	06(20-22)	
Lab	Code:		SDG No.: 7987	

Matrix (soil/water): SOIL_

Lab Sample ID: 9800159

Level (low/med): LOW__

Date Received: 01/07/98

% Solids:

93.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	С	Q	M
7400 00 5	[_		_
7429-90-5	Aluminum_	2120	_	E*	P_
7440-36-0	Antimony_	5.5	บ	N	P_
7440-38-2	Arsenic	0.47	U		F_
7440-39-3	Barium	2.4	В	N	P_
7440-41-7	Beryllium	0.16	В	N	P_
7440-43-9	Cadmium	0.79	U	N	P_
7440-70-2	Calcium	244	В	E*	P_
7440-47-3	Chromium	7.6		N*	P_
7440-48-4	Cobalt	1.9	\overline{B}		P_
7440-50-8	Copper	3.5	В	N	P
7439-89-6	Iron	5810			P_
7439-92-1	Lead	2.3	_	N	F_
7439-95-4	Magnesium	138	\overline{B}	E*	P_
7439-96-5	Manganese	41.4		EN	P_
7439-97-6	Mercury	0.15		N	CV
7440-02-0	Nickel	1.5	Ū	N	P
7440-09-7	Potassium	193	U		P_
7782-49-2	Selenium	0.41	U		F
7440-22-4	Silver	2.9		N	P_
7440-23-5	Sodium	85.4	\overline{B}		P
7440-28-0	Thallium	0.29	U		F
7440-62-2	Vanadium_	8.2	В	N	P
7440-66-6	Zinc	11.4		N <u>*</u>	P_
	Cyanide	0.04	\overline{B}		

Color	Before:	BROWN	Clarity	Before:	OPAQUE	Texture:	MEDIUM
Color	After:	COLORLESS	Clarity	After:	CLEAR_	Artifacts:	
Commer	nts:					•	

-		INORGANIC .	ANALYSES DATA	SHE	ET	EPA SAMPL	E NU.
						07(10-1	1)
Lab Name: ACCF	REDITED_LABS	_INC	Contract: _	,	-		
Lab Code:	Ca	se No.: 79	87 'SAS No.	: _		SDG No.:	7987
Matrix (soil/w	vater): SOIL			La	b Samp	le ID: 9800	160
Level (low/med	l): LOW_			Da	te Rec	eived: 01/0	7/98
% Solids:	_85.	8					
- Co	ncentration	Units (ug	/L or mg/kg dry	y w	eight)	: MG/KG	
•	CAS No.	Analyte	Concentration	С	Q	м	
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2 7440-47-3 7440-48-4 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-97-6	Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Mercury	6400 5.9 14.3 22.7 0.13 0.85 752 7.4 2.5 9.6 8560 22.0 671 123 0.26	B B U B	E* N N N N E* N N E* SN E* EN N	P P P P P P P P P P P P P P P P P P P	
	7440-02-0 7440-09-7 7782-49-2	Nickel_Potassium Selenium Silver_Sodium Thallium Vanadium Zinc Cyanide_	4.6 279 0.44 3.1 116 0.30 10.8 22.9	B B B B B B B B B B	N N N N N N N N N N N N N N N N N N N	P_ P_ F_ P_ P_ F_ P_ C_	
Color Before:	BROWN	Clarit	cy Before: OPAÇ	QUE		Texture:	MEDIUM
Color After:	YELLOW	Clarit	cy After: CLEA	AR_		Artifacts:	YES
Comments:						•	

1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

		INORGANIC	ANALYSES DATA	SH	EET	1		
ab Name: ACC	REDITED_LABS		Contract: _			07	(14-1	6)
ab Code:	Ca	se No.: 79	87 ´SAS No.	:		SDG 1	۱o.:	7987
atrix (soil/	water): SOII	ı <u> </u>		L	ab Samp	le ID:	9800	161
evel (low/me	d): LOW_			D	ate Rec	eived:	01/0	7/98
Solids:	_94.	2						
С	oncentration	Units (ug	/L or mg/kg dr	У 1	weight)	: MG/KG	;	
	CAS No.	Analyte	Concentration	С	Q	М		
	7429-90-5	Aluminum	1120	-	E*	$\left {P} \right $		
	7440-36-0	Antimony	5.5		<u>n</u>	P-		
	7440-38-2	Arsenic	0.49		^` '	F		
	7440-39-3	Barium	5.9	1	<u> </u>	$ P^- $		
	7440-41-7	Beryllium	0.04	1	N	P		
	7440-43-9	Cadmium	0.80		N	P-		
	7440-70-2	Calcium	849		E*	P-		
	7440-47-3	Chromium	5.9			P-		
	7440-48-4	Cobalt	1.3	Ū		P-		
	7440-50-8	Copper	30.2	١	<mark>N</mark>	P-		
	7439-89-6	Iron	8620	-	E*	P-		
	7439-92-1	Lead	4.6	-	$-s_{\rm N}$	F-		
	7439-95-4	Magnesium	180	R		P-		
	7439-96-5	Manganese	27.6		EN-	P-		
	7439-97-6	Mercury	0.11	Ū	N	CV		
	7440-02-0	Nickel	6.5		N	P		
	7440-09-7	Potassium	193		''	$ P^- $		
	7782-49-2	Selenium	0.42			F-		
	7440-22-4	Silver	3.5	١	N	P-		
	7440-23-5	Sodium	142	R		P_		
	7440-28-0	Thallium	0.30			F		
	7440-62-2	Vanadium	10.2			P-		
	7440-66-6	Zinc	35.9	-	N*	P-		
		Cyanide	0.03	B		c_		
olor Before:	BROWN	Clarit	Ty Before: OPA(י — ענטנ	' <u>-</u>	'—' Textur	e:	MEDIUM
olor After:	COLORLESS	Clarit	ty After: CLEA	AR_	_	Artifa	cts:	YES
omments:								

1 EPA SAMPLE NO. TNORGANIC ANALYSES DATA SHEET

	INORGANIC ANALYSES DATA	SHEET	
L ab Name: ACCREDITED	_LABS_INC Contract: _		07(18-20)
ab Code:	Case No.: 7987 'SAS No.	. :	SDG No.: 7987
Matrix (soil/water):	SOIL_	Lab Sample	D: 9800162
Level (low/med):	LOW	Date Recei	lved: 01/07/98
% Solids:	_96.1		
	- 1		110 /110

Concentration Units (ug/L or mg/kg dry weight): MG/KG

	,		1	1		
	CAS No.	Analyte	Concentration	С	Q	М
	7429-90-5	Aluminum	1030	-	E*	P
	7440-36-0	Antimony	6.9	\overline{B}	N	P
	7440-38-2	Arsenic -	0.46	U		F
	7440-39-3	Barium	2.0	В	N	P
	7440-41-7	Beryllium	0.04	U	N	P
	7440-43-9	Cadmium	0.80	U	N	P_
	7440-70-2	Calcium	222	В	E*	P_
	7440-47-3	Chromium	1.4	U	N*	P
	7440-48-4	Cobalt	1.3	U	N	P
	7440-50-8	Copper	3.1	В	N	P^-
	7439-89-6	Iron	2010		E*	$ P^- $
	7439-92-1	Lead	0.14	Ū	N	F
	7439-95-4	Magnesium	110	В	E*	P_
	7439-96-5	Manganese	25.5		EN	P
	7439-97-6	Mercury	0.10	Ū	N	CV
	7440-02-0	Nickel	1.5	U	N	P
-	7440-09-7	Potassium	193	U		P
	7782-49-2	Selenium	0.40	U		F
	7440-22-4	Silver	1.6	U	N	P
	7440-23-5	Sodium_	91.0	В		P_
	7440-28-0	Thallium_	0.28	U		F_
	7440-62-2	Vanadium_	2.1	В	N	P_
	7440-66-6	Zinc	8.1	_	N*	P_
		Cyanide	0.61			C
				_		

Color	Before:	BROWN	Clarity	Before:	OPAQUE	Texture:	MEDIUM
Color	After:	COLORLESS	Clarity	After:	CLEAR_	Artifacts:	
Commer	nts:					,	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

ALI CASE# 8007

Customer	Laboratory		An	alytical Re	equireme	nts	
Sample	Sample	*VOA	*BNA	*VOA	*Pest	*Metals	*Other
Code	Code	GC/MS	GC/MS	GC	PCBs		1 1
		Method	Method	Method	Method		cyanida
		#	#	#	#		
FLGP-08(10-11) FLGP-08(18-20)	9800248	CLP				CLP	cyanida CLP:
FIGP-08(18-20)	9800219	CLP				CLP	1
V16 9-08/22 2V	78 007.50	CLP				CIP	CLP
FLGP-09(6-7)	9800251	ap					L
FLGP-09(6-7) FLGP-09(16-18 #1GP-09(23-24 FLGP-10(10-11) FLGP-10(17-18)	9806252	CLP					
FIGP-09/23-20	9800253	as	*				
FLGP-10(10-11)	9800254	CLA					
FLGP-10(17-18)	9800255	CLP				CLP	CLP
V-16P-10 (23-24	9800256	CUP					
FLGP-11(19-28) PLGP-11(23-24)	9800257	CUP					
PLGP +1/23-24	9800258	ar					
1							
					.*		
					······································		
					······································		
			<u> </u>				-
	W						

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

ALI CASE# 8007

	Date	, Date Rec'd	. Date	Date
Matrix	Collected	at Lab	Extracted	Analyzed
soil	1/7/98	1/8/98		1/12/98
mil	1/7/98	1/8/98		1/12/98
soil	1/7/98	1/8/98		1/13/98
soil	1/7/98	1/8/98		1/13/98
poil	1/7/98	1/8/98		1/13/98
soil	1/7/98	1/8/98		1/13/98
poil	1/7/98	1/8/98		1/13/98
poil	1/7/98	1/8/98		1/13/98
soil	1/7/98	1/8/98		1/13/98
mil	117/98	1/8/98		1/13/98
poil	1/7/98	1/8/98		1/4/98
		. /		
	soil soil soil soil	soil 1/7/98 poil 1/7/98 poil 1/7/98 poil 1/7/98 poil 1/7/98 poil 1/7/98 poil 1/7/98 poil 1/7/98 poil 1/7/98	Matrix Collected at Lab soil 1/7/98 1/8/98 poil 1/7/98 1/8/98 poil 1/7/98 1/8/98 poil 1/7/98 1/8/98 poil 1/7/98 1/8/98 poil 1/7/98 1/8/98 poil 1/7/98 1/8/98 poil 1/7/98 1/8/98 poil 1/7/98 1/8/98 poil 1/7/98 1/8/98 poil 1/7/98 1/8/98	Matrix Collected at Lab Extracted soil 1/7/98 1/8/98 soil 1/7/98 1/8/98 soil 1/7/98 1/8/98 soil 1/7/98 1/8/98 soil 1/7/98 1/8/98 soil 1/7/98 1/8/98 soil 1/7/98 1/8/98 soil 1/7/98 1/8/98 soil 1/7/98 1/8/98 soil 1/7/98 1/8/98 soil 1/7/98 1/8/98

B-202 10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

ALICASE#8007

Laboratory			Date Rec'd	Date
Sample ID	Matrix	Metals Requested	at Lab	Analyzed
9800248	soil	TAL	1/08/98	1/29/98
9500248	poil	Cyanide	1/08/98	1/12/98
9800 250	sail	TAL	1/08/98	1/29/98
9800250	Rose	eyanide.	1/08/98	1/12/98
9800255	pail	TAL	1/08/98	1/29/98
9800255	Pail	cyanide	1/08/98	1/12/98
		1		
	-			
L			L	

B-205 10/95

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-	SDG Narrative	1
	Laboratory Chronicles	2
	Chain-of-Custody Form	32
•	Methodology Summary	37
	GC/MS Volatiles Data:	
	Sample Data	39
	Target Compound Results - Organic Analysis Data Sheet Tentatively Identified Compounds	
173		
	Inorganic Data: Sample Data	67
_	Results - Inorganic Analysis Data Sheet	

SDG NARRATIVE

Accredited Labs received 11 soil samples (Project: LAKA RI; ALI Case #8007) from LMS Engineers on 1/08/98 for the analyses of Volatile Organics, TAL Metals and Total Cyanide.

All analyses were performed within the required holding time.

All soil analyses were reported on a dry weight basis.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Yun-shen Lee,

Technical Director

ACCREDITED LABORATORIES, INC.

Time: 11:53:51

ORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/20 OTHER=NY-ASP A	CLP METHOD: VO 95-1,	, Cn 355.2 7 DAY HOLD TIME
-------------------------	----------------------	----------------------------

Client: L M S

Test Date Due: 01/21/98

Operations Case Date Due: 01/20/98

Client Project Name: L A K A R I

Date Sampled:01/07/98 Date Received:01/08/98 Report Package: Other

Test Description: Volatile Organics (VO)

	By	y Method:							m T C
SAMPLE	IDENTI	FICATION	M	EXT	TRACTION		ANA	LYSIS	TIC FLAG
Field#	Case#	Sample#	X	Date	Time	Init	Date	Time	Init
08(10-11)	8007	9800248	S				1-12-98		=== = W
			s						<u> </u>
	8007	9800250	S						
09(6-7)	8007	9800251	S						
09 (16-18)	8007	9800252	S						
09 (23-24)	8007	9800253	S						
10 (10-11)	8007	9800254	S						
10 (17-18)	8007	9800255	S						
10(23-24)	8007	9800256	S						
11(19-20)	8007	9800257	S				-		
11 (23-24)	8007	9800258	S				1-14-98		4
	Field# Field# 08 (10-11) 08 (18-20) 08 (22-24) 09 (6-7) 09 (16-18) 09 (23-24) 10 (10-11) 10 (17-18) 10 (23-24)	SAMPLE IDENTII Field# Case# 08(10-11) 8007 08(18-20) 8007 08(22-24) 8007 09(6-7) 8007 09(16-18) 8007 09(23-24) 8007 10(10-11) 8007 10(17-18) 8007 10(23-24) 8007 11(19-20) 8007		SAMPLE IDENTIFICATION M Field# Case# Sample# x Gase# Sample# x Sample# Sample# x Sample# Sample# s Sample	SAMPLE IDENTIFICATION M EXTENS	SAMPLE IDENTIFICATION M EXTRACTION Field# Case# Sample# x Date Time 08(10-11) 8007 9800248 S 08(18-20) 8007 9800249 S 08(22-24) 8007 9800250 S 09(6-7) 8007 9800251 S 09(16-18) 8007 9800252 S 09(23-24) 8007 9800253 S 10(10-11) 8007 9800254 S 10(17-18) 8007 9800255 S 10(23-24) 8007 9800256 S 11(19-20) 8007 9800257 S	SAMPLE IDENTIFICATION M EXTRACTION Field# Case# Sample# x Date Time Init 08(10-11) 8007 9800248 S 08(18-20) 8007 9800249 S 08(22-24) 8007 9800250 S 09(6-7) 8007 9800251 S 09(16-18) 8007 9800252 S 09(23-24) 8007 9800253 S 10(10-11) 8007 9800254 S 10(17-18) 8007 9800255 S 10(23-24) 8007 9800256 S 11(19-20) 8007 9800257 S	SAMPLE IDENTIFICATION M EXTRACTION ANA Field# Case# Sample# x Date Time Init Date 08(10-11) 8007 9800248 S	SAMPLE IDENTIFICATION M EXTRACTION ANALYSIS Field# Case# Sample# x Date Time Init Date Time 08(10-11) 8007 9800248 S

Reviewed by:

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge X=Other RPT:Report01

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:53:(

TARADAMADY CUDANTATE

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client: L M S Test Date Due: 01/21/98 Operations Case Date Due: 01/20/98 Field#: 08(10-11) Case#: 8007 Sample#: 9800248

Client Sample Description:

Date Sampled: 01/07/98 Date Received: 01/08/98 Report Package: Other

Test: TAL

Test Description: Total Analyte List (TAL)

Project Name: LAKA RI

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Ot

Sample Comments:

зу м	lethod:			PREPAR	NOITAS	CHRONICLE ANALYSIS				
TX	ELEMENT	SYM	RESULT	MDL ====	UNITS	DATE	INIT	DATE	INIT	REF
S	Aluminum	Al				1/14/98	D.M -	2/3/58	m	833-20
s	Antimony	Sb						<u> </u>		
S	Arsenic	As								
S	Barium	Ba	-							1
S	Beryllium	Ве								
S	Cadmium	Cd								
S	Calcium	Ca								-
S	Chromium	Cr								
S	Cobalt	Co								-
S	Copper	Cu								1
S	Iron	Fe						2/4/48		837-2
S	Lead	Pb								-
S	Magnesium	Mg	<u> </u>		* ***			2/3/48	1	833-
S	Manganese	Mn								
ua]	lity control	Repor	t Numbe	r(s):	980	0/14/	?		***************************************	
	ewed by:				Date:	2/10]	RPT:Rep	 ort02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:53:22

OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME HC 01/20

Client: L M S

Test Date Due: 01/21/98 Operations Case Date Due: 01/20/98

LABORATORY CHRONICLE

Case#: 8007 Field#: 08(10-11)

Sample#: 9800248

Client Sample Description:

Date Sampled: 01/07/98 Date Received: 01/08/98 Report Package: Other

480012 QC#: Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By I	Method:					PREPAI	RATION	Al	VALYSIS	
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Hg		***************************************						
s	Nickel	Ni			***************************************	1/14/98	DM-	2/3/58	_m/_	833-20
s	Potassium	K				1				1
s	Selenium	Se								
s	Silver	Ag	***************************************					2/4/98	<u> </u>	833-20
s	Sodium	Na						2/3/48		833-20
s	Thallium	Tl		···						
s	Vanadium	V			•			2/3/48		
s	Zinc	Zn								

Quality control Report	Number(s): 980/14 B	
Reviewed by:	Date:	RPT:Report02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:53:__

HC 0	1/20	Отнер:	=NY=AGD	<u> </u>	!T.P	метн	OD: VO	95-1.	Cn	355	. 2	7 DAV	HOLD 1	TME
		L M S	-AL RUE	** (Due: 01	
Fi	eld#:	08(10-		n+i		С	ase#:	Opera 8007	tion	ns Ca	ase	Date	Due: 01 9800248	/20/98
Da	te Sai	mpled:	Descri 01/07/	98 C	ate	Rec	eived:	01/08	/98	Rep	or	t Pack	age: Ot	her
	st: T		·	L_3 3		4	T:	ma				QC#	: 480	017
Pr Mt	oject x:A=A	Name:		A R	I	_	•	-	: P=I	Potal	ole	Water	:G=Slud	ge:X=0
ву 1	Method	đ:						PREP	ARAI	NOL			ICLE NALYSIS	
MTX		EMENT	SYM	RESU	LT	MDL	UNITS	DATE]	TINIT		DATE	INIT	REF '
s	Alum		Al					1/14/9	8 5	J.M				,
S	Antir	nony	Sb					/ \//			<u> </u>			
s	Arse	nic	As									8/3	m	<u> </u>
s	Bariu	ım	Ва				***************************************							
s	Bery:	llium	Be	***************************************										
s	Cadmi	ium	Cd			·····			···		 -		-	#
s	Calc	ium	Ca				,							
s	Chron	nium	Cr											
s	Coba	lt	Co											
s	Coppe	er	Cu			···					 .			
s	Iron		Fe								- ;			
s	Lead		Pb									P/6	pr	<u> </u>
S	Magne	esium	Mg								- .			
s	Manga	an e se	Mn				w							
												b		
					 -				<u> </u>					
												,		
Qua	lity	contro:	l Repor	t Num	ber	(s):	98	0/14	B					

Reviewed by:_____ Date:____

RPT:Report02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:53:2

Te: Te: Pro	ient Sample te Sampled: st: TAL st Descripti oject Name: x:A=Aqueous: mple Comment	01/07/ on: To L A K S=Soil	98 Date	lyte	List (ral)	_	QC#	: 980	15
Ву 1	Method:					LA PREPAR	BORATOR RATION		ICLE NALYSIS	
MTX ===	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
S	Mercury	Hg				775354				-
s	Nickel	Ni				1/14/98	Dm-			
s	Potassium	K								
s	Selenium	Se						3/8	Ni	117-
s	Silver	Ag			•					***************************************
s	Sodium	Na								
s	Thallium	Tl						3/6	M	817-
s	Vanadium	V	A					-		•
s	Zinc	Zn								W

Date: 01/08/98 ACCREDITED LABORATORIES, INC. Time: 11:53:

			11	ORGANI	C ANA	LYSIS I	ABORATO	DRY CHRO	NICLE		
Field#: 08(10-11) Case#: 8007 Sample#: 9800248 Client Sample Description: Date Sampled: 01/07/98 Date Received: 01/08/98 Report Package: Other Test: TAL Test Description: Total Analyte List (TAL) Project Name: L A K A R I Mtx:A-Aqueous:S-Soil:0-Oil:K-Solid:F-Filters:P-Potable Water:G-Sludge:X-Sample Comments: W Method: PREPARATION ANALYSIS TX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT REF S Mercury Hg Author Office S Nickel Ni S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium Tl S Vanadium V S Zinc Zn Quality control Report Number(s): 980//48	C O	1/20 OTHER=	NY-ASP	A CLP	METH	OD: VO	95-1, 0	Cn 355.2	7 DAY	HOLD T	IME
Test: TAL Test Description: Total Analyte List (TAL) Project Name: L A K A R I Mtx:A-Aqueous:S=Soil:O=oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X-Sample Comments: TABORATORY CHRONICLE PREPARATION ANALYSIS TX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT REF S Mercury Hg ANALYSIS S Nickel Ni S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium Tl S Vanadium V S Zinc Zn Duality control Report Number(s): 980/48	Fi Cl	eld#: 08(10- ient Sample	Descrip	otion:			8007	lons Cas Sam	e Date I ple #: 9	Due: 01 0800248	/20/9
ILABORATORY CHRONICLE PREPARATION ANALYSIS TX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT REF S Mercury Hg S Nickel Ni S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium T1 S Vanadium V S Zinc Zn LABORATORY CHRONICLE PREPARATION DATE INIT REF LABORATORY CHRONICLE PREPARATION DATE INIT REF LABORATORY CHRONICLE PREPARATION DATE INIT REF LABORATORY CHRONICLE PREPARATION DATE INIT REF LABORATORY CHRONICLE ANALYSIS LABORATORY CHRONICLE ANALY	Te Te Pr	st: TAL st Descripti oject Name: x:A=Aqueous:	on: Tot L A K A S=Soil:	cal Anai	lyte	List (1	'AL)	_	QC#:	98001	3
TX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT REF S Mercury Hg S Nickel Ni S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium Tl S Vanadium V S Zinc Zn Quality control Report Number(s): 980/48		-					PREPAR	NOITAS	AN	IALYSIS	
S Mercury Hg	MTX						DATE	INIT	DATE	INIT	REF
S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium Tl S Vanadium V S Zinc Zn	s	Mercury	Нg				1/24/48	W_	1/4/48	W_	834-6
S Selenium Se S Silver Ag S Sodium Na S Thallium Tl S Vanadium V S Zinc Zn							11.11/1°				W-41
S Sodium Na S Thallium Tl S Vanadium V S Zinc Zn Quality control Report Number(s): 980/148											
S Thallium Tl S Vanadium V S Zinc Zn Quality control Report Number(s): 980/148	s	Silver	Ag								
S Vanadium V S Zinc Zn Quality control Report Number(s): 980/148	s	Sodium	Na								
S Zinc Zn	s	Thallium	Tl								
Quality control Report Number(s): 980/148	s	Vanadium	V							***************************************	•
1/4	s	Zinc	Zn								
1/4											
1/4											
1/4											
1/4								•			
			l Repor	t Numbe	r(s):		114 F	3			

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:53:27

10	01/20	OTHER=NI-	ASP A	CLP	METHOD:	VU 9	,2-T'	CH 3	33.2	/ DAI	HOLD	TIME

Client: L M S Test Date Due: 01/21/98 Operations Case Date Due: 01/20/98

Case#: Field#: 08(22-24) 8007 Sample#: 9800250

Client Sample Description:

Date Sampled: 01/07/98 Date Received: 01/08/98 Report Package: Other

480012 QC#: Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
===			Same State State order and State	== ==		1		=====		0,7 1
S	Aluminum	Al				<u> </u>	D.m.	43/98	<u>~~/</u>	. <u>833-</u> 22
S	Antimony	Sb				-				
S	Arsenic	As								
s	Barium	Ва		***************************************						
s	Beryllium	Ве								
S	Cadmium	Cđ								
s	Calcium	Ca								
s	Chromium	Cr	-							
s	Cobalt	Co			***************************************					
s	Copper	Cu								
s	Iron	Fe						2/4/48		833-2
s	Lead	Pb								
s	Magnesium	Mg						1/3/58	<u> </u>	833-2
s	Manganese	Mn	Ng							

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE Time: 11:53:_4

HC 0	1/20	OTHER=	ny-asp	A CLE	METE	OD: VO	95-1,	Cn 355.2	7 DAY	HOLD T	IME
		LMS					Operat:	ions Case	Date :	Due: 01 Due: 01	/20/98
Cl	ient :	08(22-: Sample 1	Descri	ption:		case#:	8007	_		9800250	-
Da	te Sar	mpled:	01/07/	98 Dat	e Rec	eived:	01/08/9	8 Repor		-	
	st: The	AL scription	on: To	tal Ana	lvte	List (ral)		QC#	: <u>480</u>	0012
Pr	oject	Name:	LAK.	ARI	_		-	P=Potable	. Water	:G=Slud	ge:X=0
		Comment							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·	your o
Ву	Method	1:						ABORATORY RATION		ICLE NALYSIS	
MTX	ELI	EMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
s	Mercu		Hg								
s	Nicke	el	Ni				1/14/98	D.M.	2/3/48	M	833-20
S	Potas	ssium	K								
s	Seler	nium	Se								
S	Silve	er	Ag						2/4/48		833-4
s	Sodi	ım	Na						2/3/91		833-2:
S	Thal	lium	Tl								
S	Vanad	dium	V	***************************************					1	<u> </u>	833-20
s	Zinc		Zn								
											=
											•
Qua	lity	control	Repor	t Numbe	r(s):	980	114t	<u> </u>			
Revi	ewed 1	by:				Date:_	100]	RPT:Rep	ort02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:53:27

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client: L M S

Test Date Due: 01/21/98 Operations Case Date Due: 01/20/98

Field#: 08(22-24) Case#: 8007

Sample#: 9800250

Client Sample Description:

Date Sampled: 01/07/98 Date Received: 01/08/98 Report Package: Other

Test: TAL
Test Description: Total Analyte List (TAL)

QC#: 480012

Project Name: L A K A R I

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

Sample Comments:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DAT	Έ	TINI		DATE	INIT	REF
	Aluminum	Al		**************************************		1114/	 28	$\bigcap h$	•			====
	Antimony	Sb				/ - // /	10				***************************************	· · · · · · · · · · · · · · · · · · ·
	Arsenic	As							•	3/3	NV	817
	Barium	Ba										
s	Beryllium	Ве								***************************************	******	-
s	Cadmium	Cd										
s	Calcium	Ca										
s	Chromium	Cr			MANA CONTRACTOR OF THE PARTY OF					111100000000000000000000000000000000000	W	
s	Cobalt	Co										
s	Copper	Cu										
s	Iron	Fe										
S	Lead	Pb								a/6	M	817-
S	Magnesium	Mg										
s	Manganese	Mn		***								

ACCREDITED LABORATORIES, INC.

Time: 11:53: 4

INORGANIC ANALYSIS LABORATORY CHRONICLE CLP METHOD: VO 95-1, Cn 355.2 OTHER=NY-ASP A 7 DAY HOLD TIME Client: L M S Test Date Due: 01/21/98 Operations Case Date Due: 01/20/98 Case#: 8007 Field#: 08(22-24) Sample#: 9800250 Client Sample Description: Date Sampled: 01/07/98 Date Received: 01/08/98 Report Package: Other 980013 QC#: Test Description: Total Analyte List (TAL) Project Name: L A K A R I Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O+} Sample Comments: LABORATORY CHRONICLE PREPARATION By Method: ANALYSIS ______ MTX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT REF ____ ____ S Mercury Hg S Nickel Νi Potassium S K V/V S Selenium Se S Silver Αq Sodium S Na 3/6 S Thallium Tl S Vanadium V S Zinc Zn

			-						

Quality	control Report	Number(s):_	9801	14E	?				prosest in
Reviewed	by:	D	ate:]	RPT:Repo	ort02	

ACCREDITED LABORATORIES, INC. Time: 11:53:3

Cl	ient: L M S eld#: 08(22- ient Sample te Sampled:	Descri	ption: 98 Date	ase#: eived:	8007	ons Case Sam	ple #: ! rt Packa	Due: 01 9800250 age: Ot	/20 / 9 her
Te: Pro Mt:	st: TAL st Descripti oject Name: x:A=Aqueous: mple Comment	L A K S=Soil	ARI			=Potable		: <u> </u>	
ву і	Method:				PREPAR		Al	NALYSIS	
MTX	ELEMENT	SYM	RESULT	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Нд			1/24/48	W	1/29/98		
s	Nickel	Ni		 	1/14/78	D.M.	-		
s	Potassium	K		 	<i>′</i>		•		
s	Selenium	Se		 			****		
s	Silver	Ag		 					
s	Sodium	Na		 					
s	Thallium	Tl		 			***************************************		***************************************
s	Vanadium	V	***************************************						
s	Zinc	Zn		 			*****	·	
						•			

Quality control Report Number(s): 9801/4BReviewed by: Date: 3/1/0 RPT: RPT:Report02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:53:__7

9800255

Sample#:

HC 01/20	OTHER=NY-ASP	A	CLP	METHOD:	VO	95-1,	Cn	355.2	7	DAY	HOLD	TIME
Client:	LMS											01/21/
Field#:	10(17-18)			Case	# :	Opera 8007		s Case Samp	Da le#	ite :	Due: 98002	01/20/9 55

Field#: 10(17-18) Client Sample Description:

Date Sampled: 01/07/98 Date Received: 01/08/98 Report Package: Other

Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O 1

Sample Comments:

ву М	Method:				···· <u>3023000000000000</u>	PREF		ABORATOR' RATION		IALYSIS	
XTN	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	 	INIT	DATE	INIT	REF
s	Aluminum	Al	**************************************			1/14/9	8	D:m -	2/3/98	W	833-20
s	Antimony	Sb				/ "				***************************************	-
s	Arsenic	As							1	<u> </u>	833-26
s	Barium	Ba									
s	Beryllium	Be	***************************************								
s	Cadmium	Cd									
s	Calcium	Ca									
s	Chromium	Cr									
s	Cobalt	Co									
s	Copper	Cu									<u> </u>
s	Iron	Fe							2/4/48		333.21
s	Lead	Pb		····						-	
s	Magnesium	Mg							2/3/48	<u> </u>	333-20
s	Manganese	Mn									
								·			
						*	_				
							_				
	lity control ewed by:	Repor	t Number		<u>980</u>	3/14 3/10	B			RPT:Rep	

Date: 01/08/98 ACCREDITED LABORATORIES, INC. Time: 11:53:07

Tes Tes Pro Mts	te Sampled: st: TAL st Descripti oject Name: x:A=Aqueous: mple Comment	on: To L A K S=Soil	tal Ana A R I	lyte	List (1	TAL)		QC#	<u> 98001</u>	<u> </u>
ву 1	Method:				***************************************	PREPAR			CLE NALYSIS	
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
 S	Mercury	- -								
s	Nickel	Ni		***************************************		1/14/98	D.M -	43/48	W	833-
s	Potassium	K								
s	Selenium	Se								
s	Silver	Ag						14/98	M	833-2
s	Sodium	Na						2/3/48		833-2
s	Thallium	Tl	Annual Total Control of the Control							
s	Vanadium	V		***************************************				2/3/48	<u> </u>	833-2
s	Zinc	Zn								

Quality control Report Number(s): 980/14B RPT:Report02 Reviewed by: _____ Date: ____ 14

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 11:53:_

HC 01/2	OTHER=NY-ASP	A	CLP METHOD:	VO	95-1,	Cn	355.2	7	DAY	HOLD	TIME
---------	--------------	---	-------------	----	-------	----	-------	---	-----	------	------

Client: L M S

Test Date Due: 01/21/98 Operations Case Date Due: 01/20/98

Case#: 8007 Field#: 10(17-18)

Sample#: 9800255

15

Client Sample Description:

Date Sampled: 01/07/98 Date Received: 01/08/98 Report Package: Other

Test: TAL

Test Description: Total Analyte List (TAL)

Project Name: L A K A R I

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=O

Sample Comments:

	тx	ELEMENT	SYM	RESULT	MDT.	UNITS	DATE	INIT	DATE	====== TINIT	REF
S Antimony Sb S Arsenic As S Barium Ba S Beryllium Be S Cadmium Cd S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg											
S Antimony Sb S Arsenic As S Barium Ba S Beryllium Be S Cadmium Cd S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg	s	Aluminum	Al			-	1/14/98	D.M -			With the second
S Barium Ba	s	Antimony	Sb								-
S Beryllium Be S Cadmium Cd S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg	s	Arsenic	As		***************************************	<u></u>			9/3	M	7 12
S Cadmium Cd	s	Barium	Ba								***************************************
S Calcium Ca S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg	S	Beryllium	Be								
S Chromium Cr S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg	s	Cadmium	Cd								
S Cobalt Co S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg	S	Calcium	Ca								
S Copper Cu S Iron Fe S Lead Pb S Magnesium Mg	s	Chromium	Cr								
S Iron Fe	s	Cobalt	Co								
S Lead Pb	s	Copper	Cu			• ••••			****		
S Magnesium Mg	S	Iron	Fe								
	s	Lead	Pb						3/6	- M	817
S Manganese Mn	s	Magnesium	Mg								
	s	Manganese	Mn		***************************************						
		Water to the second sec									
	ua	lity control	Repor	t Numbe	r(s):	98	3/14B	•			

ACCREDITED LABORATORIES, INC. Time: 11:53:01 INORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Ву 1	Method:						ABORATOR RATION		ICLE NALYSIS	;
MTX ===	ELEMENT	SYM	RESULT	MDL ====	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Hg		P-100						
s	Nickel	Ni		***************************************		1/14/98	D.M.			-
s	Potassium	K			*			1/8	pr	817
s	Selenium	Se		-					***************************************	
s	Silver	Ag								
s	Sodium	Na		1110						·
s	Thallium	Tl						3/6	1	718
s	Vanadium	V			***************************************					
S	Zinc	Zn	***************************************	*						-

RPT:Report02
/7

HC 0	1/20 OTHER=	NV_NGD	A CT.D	METH	OD • VO	95-1	n 355.2	7 DAV	WOLD 4	TWE
	ient: L M S		A CLIP	MEIR	OD: VO					
Fi	eld#: 10(17- ient Sample	18) Descri	ption:	С	ase#:	Operati 8007	lons Case	Date Date Date Die#:	Due: 01	/20/9
Da	te Sampled:	01/07/	98 Date	e Rec	eived:	01/08/9	8 Repor	ct Packa	-	_
Te: Pro Mt:	st: TAL st Descripti oject Name: x:A=Aqueous: mple Comment	L A K . S=Soil	ARI	-	Ÿ	·	P=Potable	QC#		
By I	Method:					PREPAR			ICLE NALYSIS	
MTX ===	ELEMENT	SYM =====			UNITS	DATE		DATE	INIT	REF
s	Mercury	Hg				129/93		1/29/98	M	<u>831-1</u>
s	Nickel	Ni				1/14/98	D.M -			-
s	Potassium	K				<u></u>				
S	Selenium	Se								. _
s	Silver	Ag				1				
S	Sodium	Na								
S	Thallium	Tl								
S	Vanadium	V								·
S	Zinc	Zn								
Qua	lity control	Repor	t Numbe	r(s):	- <u>-</u> 980					
				•						

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:53:52

Page: 1

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I Client Field Number: 08(10-11)

Sample#: 9800248

Case#: 8007

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98

Date Received: 01/08/98

Report Package: Other

Phases:

Те		m	ANAL	YTICAL D	rical data		SAMPLE PREP		SAMPLE ANALYSIS		
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
s	% SOLIDS	01/21/98		<u></u>	***************************************		***************************************				
S	CN	01/21/98		0.47	malks.	01/12 /98	IM	01/12 /98	₹M_	841 -15	

Reviewed	Bv:	Date:	
	4		

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:53:59

Page: 3

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800250

Client Sample Description:

Case#: 8007

Client Project Name: L A K A R I

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98

Client Field Number: 08(22-24)

Date Received: 01/08/98

Report Package: Other

Phases:

		M = #+	ANALY	YTICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS		
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	=
s	% SOLIDS	01/21/98									_
s	CN	01/21/98		051	malls.	01/12 /98	上口	01/12 /48	Em	841 -15	_

Reviewed By:				Date:	***************************************				
Matrix: A=Aqueous:	S=Soil:	o=oil:	K=Solid:	F=Filters:	P=Potable	Water:	G=Sludge:	X=Other:	RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:54:36

Page: 8

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800255

Client Sample Description:

Case#: 8007

Client Project Name: L A K A R I Client Field Number: 10(17-18)

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98

Date Received: 01/08/98

Report Package: Other

Phases:

	Test		ANAL!	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS	
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/21/98		***************************************						
s	CN	01/21/98		0.45	mg/kz	01/12/98	EM	01/12 198	<u> </u>	841 - 15

Reviewed E	зу:	Date	•
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Accredited Laboratories, Inc.
General Chemistry Laboratory Chronicle

Time: 11:53:52

Page: 1

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800248

Client Sample Description:

Case#: 8007

Client Project Name: L A K A R I

Operations Case Due Date: 01/20/98

Client Field Number: 08(10-11)

Date Sampled: 01/07/98 Date Received: 01/08/98

Report Package: Other

Phases:

		ANAL	ANALYTICAL DATA			E PREP	SAMPLE ANALYSIS			
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/21/98	97.3	0110	<u> </u>	/k/rx	Ph	1/9/88	Du	3118
s	CN	01/21/98	******							

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:53:53

Page: 2

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I Client Field Number: 08(18-20)

Sample#: 9800249

Case#: 8007

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98

Date Received: 01/08/98

Report Package: Other

Phases:

Test		ANAL	TICAL D	ATA	SAMPLE PREP		SAMPLE ANALYSIS			
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/21/98	97.3	0110	<u> </u>	1/1/11	The	4/1/88	The	3118

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:53:59

Page: 3

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800250

Client Sample Description:

Case#: 8007

Client Project Name: L A K A R I Client Field Number: 08(22-24)

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98 Date Received: 01/08/98

Report Package: Other

Phases:

	Test		ANALY	ANALYTICAL DATA			E PREP	SAMPLE AN		
[tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/21/98	96.2	0,10	2	1/1/21	m	1/5/90	Ph	3118
S	CN	01/21/98		***************************************					- A	A

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:54:06

RPT:Report06

Page: 4

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I

Client Field Number: 09(6-7)

Sample#: 9800251

Case#: 8007

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98

Date Received: 01/08/98

Report Package: Other

Phases:

		most.	ANALYTICAL DATA		ATA	SAMPLE PREP		SAMPLE ANALYSIS		
ītx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/21/98	96.3	0110	<u>//</u> .	-	DZ	4/9/2	m.	3/18

Reviewed By:

Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:54:13

Page: 5

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800252

Client Sample Description:

Case#: 8007

Client Project Name: L A K A R I Client Field Number: 09(16-18)

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98 Date Received: 01/08/98

Report Package: Other

Phases:

Mtx	Analytes	Test Due Date	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
			RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/21/98	97.8	0.10	<u> </u>	4/8/16	Y Da	1/4/11	The	3/18

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:54:21

Page: 6

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I

Client Field Number: 09(23-24)

Sample#: 9800253

Case#: 8007

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98

Date Received: 01/08/98

Report Package: Other

Phases:

ίτχ	Analytes	Test Due Date	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS			
			RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
s	% SOLIDS	01/21/98	97.4	0.10	<u>y</u> .	18/14	D4	1/9/1	y Pr	3/18	

Date: /- 9- 98 Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:54:28

Page:

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800254

Client Sample Description:

Case#: Operations Case Due Date: 01/20/98

8007

Client Project Name: L A K A R I

Client Field Number: 10(10-11)

Date Sampled: 01/07/98 Date Received: 01/08/98

Report Package: Other

Phases:

		Test	ANAL	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
S	% SOLIDS	01/21/98	965	0,10		48/2	M	4/3/91	Pr	3118	

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:54:36

Page: 8

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I Client Field Number: 10(17-18)

Sample#: 9800255

Case#: 8007 Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98

Date Received: 01/08/98

Report Package: Other

Phases:

		Test (ANALY	ANALYTICAL DATA			PREP	SAMPLE AND		
itx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/21/98	97.5	0.10		1/8/52	m	1/2/28	Mi	3/19
s	CN	01/21/98		H					H	**************************************

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc.
General Chemistry Laboratory Chronicle

Time: 11:54:44

Page: 9

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I

Client Field Number: 10(23-24)

Sample#: 9800256

Case#: 8007

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98 Date Received: 01/08/98

Report Package: Other

Phases:

		Test	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/21/98	94.6	0.10	<u>/</u> .	1/6/14	Dr	1/5/40	m	3119

Reviewed By: ____

Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 11:54:51

Page: 10

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800257

Case#: 8007

Client Sample Description: Client Project Name: L A K A R I Client Field Number: 11(19-20)

Operations Case Due Date: 01/20/98

Date Received: 01/08/98

Date Sampled: 01/07/98

Report Package: Other

Phases:

	Test		ANAL	ANALYTICAL DATA			E PREP	SAMPLE AN		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/21/98	92.3	0.10	<u></u>	[8] [8]	M	1/5/18	The	3/19

Date: 1-9-98 Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 11:54:58

Page: 11

HC 01/20 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800258

Client Sample Description:

Case#: 8007

Client Project Name: L A K A R I Client Field Number: 11(23-24)

Operations Case Due Date: 01/20/98

Date Sampled: 01/07/98 Date Received: 01/08/98

Report Package: Other

Phases:

		Test	ANALY	ANALYTICAL DATA			E PREP	SAMPLE AN		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/21/98	97.5	0110	<u></u>	<u> </u>	The	4/9/91	The	3/19

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

COMMENTS

ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FORM

.8007

ALI CASE

P.O.#

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

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PAGE	OF	

	CLIENT	LMS	ENSI	Nue 15		
7	ADDRESS	1	-	Hill f	Plaza	
Γ	CITY	Pear 1	Riva	_		
_	STATE	NY	1	ZIP	10965	

PROJECT	LAKA RI	
CONTACT	Maria Heinz	
PHONE	914-735-8300	
FAX	914 - 735 - 7466	

STATE	<u> </u>	ZI	P	10965	FAX	914	1 - 735 - 7	466	
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FORM: 291COC

Seal on	Sample	son Breaking Shuttle & A for Sample		ory: Accredited Laborato N. ANTONEL		ocation: C		
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7/98	! !	Signature	$\bigcirc$ $\wedge$ $\wedge$ $\wedge$ $\wedge$	Signature ///	S. B.	STorage		
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Seal on	Sample	on Breaking Shuttle & A for Sample	Accenting	ory: Accredited Laborato N. ANTONE			_	
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FORM:

291COC

Seal on Samp	erson Breaking le Shuttle & A		ory: Accredited Laborato			_
Responsibilit	ty for Sample	Name: _	N. ANTON		itle: <u></u>	<u>ko</u>
Field Sample	Seal No	ane	Date Brokeh://_	Military	Time Seal	8roken
Case No.	8007		Check if No Seal on S	ample Shuttle		
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FORM: 291COC

#### METHODOLOGY SUMMARY

Volatile Organics: EPA-CLP-SOW (Document Number OLM03.1)

#### Soil/Sediment Samples

#### a. Low level:

An inert gas is purged through a mixture containing 5g of sample and reagent water at an elevated temperature. The volatile organics are efficiently transferred from aqueous phase to the vapor phase and then trapped onto a sorbent column. When purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the volatile organics from the sorbent column to a GC column. The GC is temperature programmed to separate the volatile organics which are then detected and quantified with a mass spectrometer.

TAL Metals: EPA-CLP-SOW (Document Number ILM04.0)

### Soil/Sediment Samples

A 1gm portion of sample is digested with nitric acid and hydrogen peroxide. The digestate is then refluxed with either nitric acid or hydrochloric acid. Diluted hydrochloric acid is used as the final reflux acid for the Furnace AA analysis of Sb, the Flame AA or ICP analysis of Al, Sb, Ba, Be, Ca, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Aq, Na, Tl, V and Zn. Nitric acid is employed as the final reflux acid for the Furnace AA analysis of As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, Se, Ag, Tl, V and Zn. For the graph furnace analysis, an aliquot of the digestate is spiked with For the graphite modifier solution and is placed into the graphite furnace. aliquot is then slowly evaporated to dryness, charred and atomized. The absorption of the EDL radiation during atomization is proportional to the element concentration. For the flame AA, the digestate is aspirated and atomized in a flame. The absorption of the HCL radiation during atomization is proportional to the element concentration. The basis of ICAP method is the measurement of atomic emission by an optical spectroscope technique. The emission spectra are dispersed by a grating spectrometer and the intensities of the line are measured and processed by a computer system. mercury analysis, a 0.2gm portion of sample is digested with potassium permanganate and persulfate at acidic condition in a water bath at 95°C. The mercury in the sample is reduced to the elemental state and detected by the cold vapor technique in a closed system.

Total Cyanide: EPA-CLP-SOW (Document Number ILM03.0)

### Soil/Sediment Samples

37

A 1-5gm portion of sample mixed with reagent water is placed into a cyanide distillation appartus. Hydrogen cyanide gas is liberated from the aqueous solution upon addition of sulfuric acid, magnesium chloride solution and heat. The hydrogen cyanide gas is trapped in a scrubber containing sodium hydroxide solution. The color is formed when the reagents of chloramine-T and pyridine-barbifuric

acid mixture is added into scrubber solution. The intensity of the color is measured spectrophotometrically and is proportional to the concentration of cyanide in the solution.

### VOLATILE ORGANICS ANALYSIS DATA DHEET

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			CONCENTRATION UNITS:			
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EPA SAMPLE NO.

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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	i

						8-10-11
ab	Name:	ACCREDITED	LABS,	INC.	Contract:	

atrix: (soil/water) SOIL Lab Sample ID: 9800248

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4238

wevel: (low/med) LOW Date Received: 01/08/98

" Moisture: not dec. 3 Date Analyzed: 01/12/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

oil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/KG COMPOUND NAME CAS NUMBER RT | EST. CONC. | 1. 76131 | Ethane, 1,1,2-trichloro-1,2,1 10.01 | 556672 | Cyclotetrasiloxane, octameth | 29.37 | 6.5 3._____IUnknown Aromatic 8 . _____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ___ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ___ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ___ | ____ | ____ | ____ | ___ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ | ____ 10.______ 16.____ 18.______ 22._____ 25._____i_____ 26._____|___|____| 28._____|

BPA SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET J 8-18 20 Lab Name: ACCREDITED LABS, INC. Contract: _______ Lab Code: 11109 | Case No.: 8007 | SAS No.: _____ SDG No.: Matrix: (soil/water) COIL Lab Sample ID: 9800249 lample wt/vol: 5.0 (g/mL) G Lab File ID: >D4239 Level: (low/med) LOW Date Received: 01/08/98 % Maisture: not dec. 3 Date Analyzed: 0./12/98 St Column: RTX 502 | IS: 0.53 (mm) | Dilution Factor: 1.0 Boir Extract Volume: [] (qL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: CAS NO. COMPCUND cas (4. or he) Keil UG/VG 1 74-87-3- -- -- Proceedings hape. 19 0 H I 1 74- 3-9-- -- -- Bromomothane 10 71 1 1 75-41-40----- Vinyl Chlorido. \$ U T IJ 1 75 00-3--- ---- Chilosopthare 44 C 1.75-09-10-6 Mechylero Chlorode 6 i 1 bisb4-1 see--- Additions 2 / 1 G 1 75 15 0---- -- Carbon Discillo --10 ו ט : 75-35-4--- -- ... | Dichierpetheue
... 75-34-3----- | Liebichtorethano | | | |
... 540-59-0-----... | Z-Dichiercethano | | | 10 L U 10 I. U 1 67-55 30- Chiloroform . . . . . !  $10^{\circ} + 0^{\circ}$ . 0 - r. . U - T 1 107-06-2-----1,2-Dichioroethane. 1 78-93 3 - 2 Butanone .... -10 ) U T 10 i U_ 1 10 I U . 75-27-4----- Bromodich:cromethane 10 i _U_i l 1 78-87 5 ...---1,2-Blchloropropaue____ 10 i [U._] 1 10061-01-5----cis-t,3-Dichloropropene............ 10 l__U, l 10 | .._0__ 10 l__U l 10 | ...U. . | 1 71-43-2---- Benzene . . 10 | 1 | 2 | 2 | 1 | 10061-02-6----trans-1.3-01chloropropene | | __ li _. I : 0 1 75 25-2-----Bromoform_______ 10 1 U ...: | 108-10 | - 4-Methyl 2 Pentanone____ 1:0 | L___G__1 10 1 0 1 l 591-78-6-----2-Hexanone_. .Z/ 18-4-----Tetrachlorocthine______ 10 _ 0777 1 79-34-5 ----- 1.1.2.2-Tetracbloroethane_ 1 - :Ծ ∣լՄ_լ| i 103-88-3-----foluene..________ - 16 T., U - T 108-90-7-----Chlorobenzene.... 10 F C. ... I [00 4.-4 - Ethylbenzene (0 L, U, ) (10 %) 3 T ! 1330-20-7-----Xvlene (total)_____ 10 (12 0 ) !__....

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# 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	EPA	SAMPLE	NO.
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1			i

						8-18-20
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	

Matrix: (soil/water) SOIL Lab Sample ID: 9800249

mample wt/vol: 5.0 (g/mL) G Lab File ID:  $\Rightarrow$ D4239

Tavel: (low/med) LOW Date Received: 01/08/98

Moisture: not dec. 3 Date Analyzed: 01/12/98

· D Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

## CONCENTRATION UNITS: Number TICs found: 3 (ug/L or ug/Kg) UG/KG

CAS NUMBE	.R	COMPOUND NAME	RT	EST. CONC.	Q
1. 76	131   Eth	nane, 1,1,2-trichloro	-1,2,1 10.00	i 28	N
2. 556		clotetrasiloxane, oct		92	N
3	lUnk	known Aromatic	i 33.66	1 230	N
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Lab Name: ACCKEDITED	LASS. 1WC.	l Contract:	
Lab Code: (1109	Case No.: 8007	SAN Mo.: SDG No	×××
Matrix: (soi!/water)	9 <b>9 [</b> ]	_ Lab Cample ID: 9	809250
Sample wt/vol:	5.0 (g/sl.) C	Lab Pila TO: 3	194237
Level: (low/med)	LOW	O thowave a state	1/08/98
& Moisture; not dec.	64	Date Amalyzed: 0	1713798
78 80) wan: ETX-502	li: 9.53 (mm)	Diletton Factor:	} _ (r
Joil Extract Volumes:	(662)	Soul Aliquot Vol	###÷:(u₺)
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71-43-2	1	10 1U
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## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

082224

EPA SAMPLE NO.

-						i	082224
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	l	

Matrix: (soil/water) SOIL Lab Sample ID: 9800250

mample wt/vol: 5.0 (g/mL) G Lab File ID:  $\rightarrow D4257$ 

7 evel: (low/med) LOW Date Received: 01/08/98

Moisture: not dec. 3 4 LMC Date Analyzed: 01/13/98

Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT    ======i	EST. CONC.	,   Q 
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### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

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Matrix: (soil/water) SOIL Lab Sample ID: 9800251

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4262

Level: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 4 Date Analyzed: 01/13/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

| 74-87-3-----Chloromethane_____| 10 | __U__| | 74-83-9-----Bromomethane_____| 10 | __U__1 10 | U_1 10 | U_ | : 75-09-2-----Methylene Ch:oride______| 10 | U | | 67-64-1-----Acetone_______ 10 | U | | 75-15-0-----Carbon Disulfide 10 | U _ | | 75-35-4-----| .1-Dichlorcethene. 10 | _U__1 10 |__U__| | 540-59-0----1,2-Dichloroethene (total)___| 10 | U___| 1 67-66-3-----Chloroform 10 |__U__| 107-06-2----1,2-Dichloroethane_____ 10 | U_ | 1 78-93-3-----2-Butanone_____ 10 | U__| 1 71-55-6-----1,1,1-Trichloroethane 10 | U | 10 |__U__! | 56-23-5-----Carbon Tetrachloride_____ 1 75-27-4----Bromodichloromethane_____ 10 i__U__ I 1 78-87-5-----1,2-Dichloropropane______1 10 I__U__I | 10061-01-5----cis-1,3-Dichloropropene____| 10 | __U__| | 79-01-6------Trichloroethene_____| 10 I__U__I 10 | __U__| 1 124-48-1-----Dibromochloromethane____ 10 |__U__| 79-00-5-----1,1,2-Trichloroethane_____| 10 |__U__| | 71-43-2-----Benzene______| | 10061-02-6----trans-1,3-Dichloropropene___| 10 | U__| 10 |__U__| 1 75-25-2----Bromoform 10 |__U__| | 591-78-6----2-Hexanone____| 10 |__U__| | 127-18-4-----Tetrachloroethene____ 10 |_U_| 1 79-34-5----1,1,2,2-Tetrachloroethane____1 10 | _U__! | 108-88-3----Toluene_____| .10 |__U__| 108-90-7----Chlorobenzene____ 10 | _U__| 10 | __U__| 10 | U | 10 |__U__i | 1330-20-7-----Xylene (total)_____| No control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con

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# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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	TEC LARS, INC.			
sh Code: illes •	Case No.: 8007	3A5 No.:	. SDG No.:	
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ovel: (io⊌/med	i) 16W	Date Re	ceived: 01/05/9	\$
Maisture: not e	00 84 WW	Dare An	#192#d: 01/13/9	8
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### VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPI	, F.	NC
	SAMPI	SAMPLE

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Lab Name: ACCREDITED LABS, INC. Contract:

Matrix: (soil/water) SOIL Lab Sample ID: 9800252

Sample wt/vol: 5.0 (g/mL) GLab File ID: >D4263

Level: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 2 Date Analyzed: 01/13/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

CAS NO. COMPOUND

Soil Aliquot Volume: ____(uL) Soil Extract Volume: ____(uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

		*
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 0
75-01-4	Vinyl Chloride	10
75-00-3	Chloroethane	10   U
75-09-2	Methylene Chloride	10   0
67-64-1		10
75-15-0	Carbon Disulfide	10
75-35-4	1,1-Dichloroethene	10 TU ;
75-34-3	1,1-Dichloroethane	10
540-59-0	1,2-Dichloroethene (total)	10 U
	Chloroform	10 ""
107-06-2	1,2-Dichloroethane	10 U
78-93-3	2-Butanone	10
71-55-6	1,1,1-Trichloroethane	10 -
	Carbon Tetrachloride	10
	Bromodichloromethane	10 0
78-87-5	1,2-Dichloropropane	10 ""
10061-01-5	cis-1,3-Dichloropropene	10 U
79-01-6	Trichloroethene	10 U
124-48-1	Dibromochloromethane	10
79-00-5	1,1,2-Trichloroethane	10   0
71-43-2		10 U
	trans-1,3-Dichloropropend	10 U
75-25-2	Bromoform	10 " 0"
	4-Methyl-2-Pentanone	10 U
591-78-6	2-Hexanone	10 U
127-18-4	Tetrachloroethene	10
79-34-5	1,1,2,2-Tetrachloroethane	10 U
108-88-3		10
108-90-7	Chlorobenzene	10 'U' '
	Ethylbenzene	το   Τυ
100-42-5	A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	10 U
	Xylene (total)	10   "U"

### 1 E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

09-16-18 Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: 11109 Case No.: 8007 SAS No.: SDG No.	.:
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Matrix: (soil/water) SOIL Lab Sample ID: 9800252

■ Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4263

Level: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 2 Date Analyzed: 01/13/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ___ (uL)

CONCENTRATION UNITS:

Number TICs found: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		10.00	9	=== N
1	Unknown	29.41	9	N
2.	Unknown Aromatic	33.70	50	N
J •	_ Officion Alonacic	33.70	50	14
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## 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

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09-23-24	ł

EPA SAMPLE NO.

						1 09-23-24	1
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:		l

Matrix: (soil/water) SOIL Lab Sample ID: 9800253

Sample wt/vol: 5.0 (g/mL) G Lab File ID:  $\Rightarrow$ D4264

Level: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 3 Date Analyzed: 01/13/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

## CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

	CAS NO.	com comb (ag/L of ag	rkg r oorko	Y
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Ì	74-87-3	Chloromethane	10	l U l
	74-83-9	Bromomethane,,	1 0	1 _U
1	75-01-4	Vinyl Chloride	10	U
1		Chloroethane	10	iU l
1	75-09-2	Methylene Chloride	10	U
ļ	67-64-1	Acetone	1 10	1UI
1		Carbon Disulfide		UI
1	75-35-4	i,l-Dichloroethene	0 1	1U1
1	75-34-3	l,l-Dichloroethane	10	1U1
į		l,2-Dichloroethene (total)		U
-		Chloroform		U
į		1,2-Dichloroethane		U
1		2-Butanone		U
١		l,l,l-Trichloroethane		U
-	56-23-5	Carbon Tetrachloride	10	U
1	75-27-4	Bromodichloromethane	10	U
1	78-87-5	1,2-Dichloropropane	10	UI
I		cis-1,3-Dichloropropene		U
1	79-01-6	Trichloroethene	1 10	U
į	124-48-1	Dibromochloromethane	10	
1	79-00-5	l,1,2-Trichloroethane	0 1	U
1	71-43-2	Benzene	10	U
İ	10061-02-6	trans-1,3-Dichloropropene	10	U
1	75-25-2	Bromoform	10	U
1		4-Methyl-2-Pentanone		U
ı	591-78-6	2-Hexanone	1 10	U
ŀ	127-18-4	Tetrachloroethene	10	IUI
1	79-34-5	1,1,2,2-Tetrachloroethane	10	U
- 1		Toluene		U
1		Chlorobenzene		IUI
į		Ethylbenzene		IUI
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1		Xylene (total)		IU I
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## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	EPA	SAMPLE	No.
1	0 (	9-23-24	1

Matrix: (soil/water) SOIL Lab Sample ID: 9800253

mample wt/vol: 5.0 (g/mL) G Lab File ID: >D4264

` ≥vel: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 3 Date Analyzed: 01/13/98

Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

## CONCENTRATION UNITS: Number TICs found: 3 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	l Q
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	Unknown Hydrocarbon	1 29.37 1	22	N
	Unknown Aromatic	33.71 (	92	l N
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## lA VOLATILE ORGANICS ANALYSIS DATA SHEET

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						!	10-10-11	i
a b	Name:	ACCREDITED	LABS,	INC.	Contract:	and the same should be supplied the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same o	THE PARTY OF THE SECOND SERVICE A MARKET LAND ASSESSMENT ASSESSMENT OF THE ASSESSMENT SECURITY MARKET SECOND	İ

Matrix: (soil/water) SOIL Lab Sample ID: 9800254

Sample wt/vol: 5.0 (g/mL) G Lab File ID:  $\Rightarrow$ D4265

Level: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 4 Date Analyzed: 01/13/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CAS NO.	COMPOUND	CONCENTRA (ug/L or			Q
7/-87-3	Chloromethane			10	
	Bromomethane,			10	U
	Vinyl Chlorid			10	U
	Chloroethane			10	U
	Methylene Chl			10	lUI
67-64-1	Acetone	Commence of the same		1 0	U
75-15-0	Carbon Disulf	ide	<u>'</u>	10	U
	l,1-Dichloroe			10	
	1,1-Dichloroe			10	U
	1,2-Dichloroe			10	lUi
	Chioroform			10	UI
	1,2-Dichloroe		1	10	UI
	2-Butanone		i	10	U
	1,1,1-Trichlo			10	IUI
	Carbon Tetrac			10	l_U_l
	Bromodichloro			10	I U I
	l,2-Dichlorop			10	U
	cis-1,3-Dichl			10	lul
	Trichloroethe			10	IUI
	Dibromochloro			10	U
79-00-5	1,1,2-Trichlo	roethane	m-14	10	IUI
71-43-2	Benzene		1	10	lUI
	trans-1,3-Dic			10	UI
75-25-2	Bromoform			10	IUI
108-10-1	4-Methyl-2-Pe	ntanone		10	U
591-78-6	2-Hexanone			10	U
127-18-4	Tetrachloroet	hene		10	IUI
79-34-5	1,1,2,2-Tetra	chloroethane_	1	10	lU l
108-88-3	Toluene			.10	U
108-90-7	Chlorobenzene	Approximate the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second control of the second	_	10	IU I
	Ethylbenzene_			10	lU l
100-42-5+	Styrene	XXII ANTO TOTAL TO MANA TO THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE		10	U
	Xylene (total			10	U
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# 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	EFA	SAM	LL	NO.
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Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	l	

Matrix: (soil/water) SOIL Lab Sample ID: 9800254

mple wt/vol: 5.0 (g/mL) G Lab File ID:  $\Rightarrow$ D4265

??vel: (low/med) LOW Date Received: 01/08/98

Moisture: not dec. 4 Date Analyzed: 01/13/98

Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:
Number TICs found: 2 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT I	EST. CONC.	Q
1.	·	1 29.37	24	 N
2		1 33.67 1	140	N
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### IA VOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC. Contract:

Matrix: (soil/water) SOIL Lab Sample ID: 9800255

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4266

Level: (low/med) LOW Date Received: 01/08/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

#### CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 1 74-87-3-----Chloromethane_____ 10 | U_ | | 74-83-9----Bromomethane_____ 10 | _U_ | | 75-01-4-----Vinyl Chloride_____ 10 | __U__ | 1 75-00-3-----Chloroethane 10 | U_ | | 75-09-2----Methylene Chloride_____| 10 | U__ | | 67-64-1------Acetone 10 | U_ | 75-15-0-----Carbon Disulfide_____ 10 | __ U__ | | 75-35-4-----1,1-Dichloroethene_____| 10 | U ... 1 75-34-3-----1,1-Dichloroethane____ 10 | __U__ | 1540-59-0----1, 2-Dichloroethene (total) 10 | U _ | | 67-66-3-----Chloroform____ 10 |__U__1 | 107-06-2----1,2-Dichloroethane 10 | ___U__1 | 78-93-3----2-Butanone_____| 10 |__U__| 71-55-6-----!,1,1-Trichloroethane_____ 10 | ___U__| 10 |__U__| | 75-27-4----Bromodichloromethane_____| 10 | U_| | 78-87-5-----|,2-Dichloropropane_____| 10 |__U__| | 10061-01-5----cis-1,3-Dichloropropene____| 10 |__U__! | 79-01-6-----Trichloroethene_____| 10 | __U__| | 124-48-1-----Dibromochloromethane_____| 10 | U__ | | 79-00-5-----|,1,2-Trichloroethane____| 10 | U | 1 71-43-2----Benzene_____ 10 |__U__| 10061-02-6----trans-1,3-Dichloropropene____| 10 | U__| | 75-25-2----Bromoform_____ 10 |_U_| | 108-10-1------| 10 |__U__| | 591-78-6----2-Hexanone_____| 10 |__U__| 127-18-4----Tetrachloroethene____ 10 |__U__| | 79-34-5-----1,1,2,2-Tetrachloroethane___| 10 | U__| 1 108-88-3----Toluene______ .10 |__U__| 108-90-7-----Chlorobenzene_____ 10 |__U__| | 100-41-4-----Ethylbenzene_____ 10 | U__ | 1 100-42-5-----Styrene_ 10 | U_ | | 1330-20-7----Xylene (total)_____ 10 | U | VARIA NAME OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE OF TAXABLE

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	EPA	SAMPLE	NO.
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i	1 (	0-17-18	i
i			1

						i 10-17-18
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	

Matrix: (soil/water) SOIL Lab Sample ID: 9800255

mample wt/vol:  $5.0 mtext{ (g/mL) G}$  Lab File ID:  $\Rightarrow D4266$ 

*evel: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 3 Date Analyzed: 01/13/98

Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:
Number TICs found: 2 (ug/L or ug/Kg) UG/KG

CAS N	IMBER	COMPOUND NAME	RT	EST. CONC.	1 Q
1.	556672	Cyclotetrasiloxane, octameth	   29.38	39	
2.		_ Unknown Aromatic	33.67	160	N
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## 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

10.22.24

EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC. Contract: ______|

Matrix: (soil/water) SOIL Lab Sample ID: 9800256

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4267

Level: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 5 Date Analyzed: 01/13/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

## CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or	ug/Kg) UG/KG	Q
			· <del></del>	1 1
74-87-3	Chloromethan	<u> </u>		10  U1
74-83-9	Bromomethane			10  U_
	Vinyl Chloric			10 1U1
75-00-3	Chloroethane			10   _U _1
75-09-2	Methylene Chi	loride		10  U
67-64-1	Acetone		, .	10   _UI
75-15-0	Carbon Disul:	fide		10  U1
75-35-4	1,1-Dichloro	ethene		10  U
75-34-3	l,1-Dichloroe	ethane		10   U_1
540-59-0	1,2-Dichloro	ethene (total)	) [	10  U
67-66-3	Chloroform			10  U
107-06-2	1,2-Dichloro	ethane		10  U
78-93-3	2-Butanone			10   U
71-55-6	1,1,1-Trichle	oroethane		10  UI
	Carbon Tetrac			10  U
75-27-4	Bromodichlore	omethane		10  U
78-87-5	1,2-Dichloro	oropane		10  U
10061-01-5	cis-1,3-Dich	loropropene		10  U
79-01-6	Trichloroethe	ene		10  U
1 2 4 - 4 8 - 1	Dibromochlore	omethane		10  U
79-00-5	1,1,2-Trichlo	oroethane		10  U
71-43-2	Benzene			10  U
	trans-1,3-Dic			10  U
75-25-2	Bromoform			10  U
	4-Methyl-2-Pe			10  U
	2-Hexanone			10  U
	Tetrachloroe			10  U
79-34-5	1,1,2,2-Tetra	achloroethane_		10  U
108-88-3	Toluene			$\cdot$ 10  U
108-90-7	Chlorobenzen	<u></u>		10  U1
100-41-4	Ethylbenzene			10   U
100-42-5	Styrene			10  U_
1 3 3 0 - 2 0 - 7	Xylene (tota)	1)		10  U

1 E

EPA SAMPLE NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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						10-23-24
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	

Lab Sample ID: 9800256 Matrix: (soil/water) SOIL

mample wt/vol: 5.0 (g/mL) G Lab File ID: >D4267

evel: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 5 Date Analyzed: 01/13/98

Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

### CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/KG COMPOUND NAME j 1 EST. CONC. 

1._____Unknown Hydrocarbon | 29.35 | 2.____IUnknown Aromatic 1 33.69 120 4 . _____| ___| ____| ____| ____| ____| ____| 26._____i 27._____|

29.____

#### 1 A VOLATILE ORGANICS ANALYSIS DATA SHEET

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Lab	Name:	ACCREDITED	D LABS, INC.	Contract:		11-19-20
Lab	Code:	11109	Case No.: 8007	SAS No.:	SDG	No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9800257

Lab File ID: >D4268 Sample wt/vol: 5.0 (g/mL) G

Date Received: 01/08/98 Level: (low/med) LOW

% Moisture: not dec. 8 Date Analyzed: 01/13/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: (uL) Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG

74-87-3-----Chloromethane 11 74-83-9-----Bromomethane IJ 11 75-01-4------Vinyl Chloride
75-00-3------Chloroethane U 11 75-00-3-----Chloroethane 75-09-2----Methylene Chloride 1.1 _Ú___ 1 1 67-64-1-----Acetone_ 1.1 11 75-15-0-----Carbon Disulfide 1.7 [ ] 75-35-4----1,1-Dichloroethene 1.1 U ----U 11 _ีบ___ 540-59-0----1,2-Dichloroethene (total) 67-66-3-----Chloroform_ 1 1 107-06-2----1,2-Dichloroethane .--- U----11 ...- U --11 78-93-3----2-Butanone 71-55-6----1,1,1-Trichloroethane 11 ___U___ 56-23-5-----Carbon Tetrachloride 75-27-4-----Bromodichloromethane |--U 78-87-5----1,2-Dichloropropane 10061-01-5----cis-1,3-Dichloropropene 11 79-01-6----Trichloroethene 11 [] 124-48-1-----Dibromochloromethane 79-00-5-----1,1,2-Trichloroethane 11 1.1 Ú 1.1 71-43-2-----Benzene U 11 10061-02-6----trans-1,3-Dichloropropene Ũ 11 75-25-2-----Bromoform Ū 11 108-10-1----4-Methyl-2-Pentanone U 11 591-78-6----2-Hexanone 11 127-18-4----Tetrachloroethene 11 79-34-5----1,1,2,2-Tetrachloroethane 11 U 108-88-3-----Toluene 11 108-90-7-----Chlorobenzene TI 11 100-41-4-----Ethylbenzene 11 11  $U^{-}$ 100-42-5-----Styrene 100-42-5-----Styrene 1330-20-7-----Xylene (total) 11 1 1

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	EPA	SAMPLE	NO.
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					I	11-19-20
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	April 2000 1000 1000 1000 1000 1000 1000 100

Matrix: (soil/water) SOIL Lab Sample ID: 9800257

mample wt/vol: 5.0 (g/mL) G Lab File ID: >D4268

evel: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 8 Date Analyzed: 01/13/98

C Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:
Number TICs found: 2 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT i	EST. CONC.	
1. 556672	Cyclotetrasiloxane, octamethi	29.36 i 33.70 i	69 90	N N N
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Matrix: (soil/water) SOIL Lab Sample ID: 9800258

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >C6553

Level: (low/med) LOW Date Received: 01/08/98

% Moisture: not dec. 3 Date Analyzed: 01/14/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Make the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second 1 10 |__U__| 74-87-3-----Chloromethane______ 1 74-83-9-----Bromomethane____ 10 | U__I 1 75-01-4-------Vinyl Chloride______ 10 | U__| 75-00-3-----Chloroethane______ 10 |__U__| | 75-09-2----Methylene Chloride_____ 3 | J___ | | 67-64-1-----Acetone____| 10 | U | 10 | U__| 10 | __U__| 10 | U | 75-34-3-----1,1-Dichloroethane 10 |__U__| 1 540-59-0-----1,2-Dichloroethene (total)___ 10 |__U__| | 67-66-3-----Chloroform_____ 1 107-06-2----1,2-Dichloroethane_____ 10 |__U__| | 78-93-3----2-Butanone_____| 10 |__U__| 1 71-55-6-----1,1,1-Trichloroethane_____ 10 |__U__| 10 |__U__| | 56-23-5-----Carbon Tetrachloride 10 |__U__| 75-27-4----Bromodichloromethane____ | 78-87-5-----1,2-Dichloropropane_____| 10 |__U__| | i0061-01-5----cis-1,3-Dichloropropene_____| 10 |__U__| 10 |__U__| 79-01-6----Trichloroethene_____ | 124-48-1-----Dibromochloromethane_____| 10 |___U__| 1 79-00-5-----1,1,2-Trichloroethane_____1 10 |__U__| 10 |__U__| 1 71-43-2----Benzene____ 10061-02-6----trans-1,3-Dichloropropene____ 10 |__U__| 75-25-2----Bromoform____ 10 |__U__| 10 |__U__| 10 |__U__| 591-78-6----2-Hexanone_____ | 127-18-4----Tetrachloroethene_____| 10 |__U__| 1 79-34-5-----1,1,2,2-Tetrachloroethane____ 10 | __U __ | 108-88-3----Toluene_____ ·10 |__U__| 10 | U | | 108-90-7-----Chlorobenzene_____ 100-41-4----Ethylbenzene_____ 10 |__U__| 10 |__U__| 1 100-42-5----Styrene | 1330-20-7-----Xylene (total)_____ 10 | U | 59 1 E

EPA SAMPLE NO.

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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11-23-24	1
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Tab Name: ACCREDITED LABS, INC. Contract:______

Matrix: (soil/water) SOIL Lab Sample ID: 9800258

 $\perp$ ample wt/vol: 5.0 (g/mL) G Lab File ID: >C6553

'evel: (low/med) LOW Date Received: 01/08/98

₩ Moisture: not dec. 3 Date Analyzed: 01/14/98

C Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	(
	lUnknown Hydrocarbon	8.71	6 2	
2	Unknown	1 21.12 1	5	i N
3	iUnknown Hydrocarbon	i 26.50 l	8 5	N
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### IA VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPLE	L NO.

VBLKD07
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Lab Name: ACCREDITED LABS, INC. Contract: ______

Lab Code: 11109 Case No.: 8007 LNC SAS No.: ____ SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: VBLKD07

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D4227

Level: (low/med) LOW Date Received: 01/12/98

% Moisture: not dec. 0 Date Analyzed: 01/12/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

### CONCENTRATION UNITS:

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EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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### VOLATILE ORGANICS ANALYSIS DATA SHEET

EFA SAMPLE NO.

VBLKD08

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: III09 Case No.: \$007 MC SAS No.: ____ SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: VBLKD08

Level: (low/med) I.OW Date Received: 01/13/98

% Moisture: not dec. 0 Date Analyzed: 01/13/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: [.0]

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL)

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### iê Volatile organics analysis Data Sheet TENTATIVELY INENTIFIED COMPOUNDS

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#### IA VOLATILE ORGANICS ANALYSIS DATA SHRET

EP? SAMPLE NO.

3		
į	VFLKC84	
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.at tame: AttRebise	U LABS. INC.	Exattact:	1 !
.ab Code: 11109	Ease No.: \$047 Let	SAD No.: SDG (	<b>€</b> ♦.:
latrix: (soil/wat⊬)	1 501L	tak Sample ID.	VALXC84
ample wt/vol:	S.O (g/ml.) G	Latt File it:	>665%1
(bed/we): :leve.	1.0¥	Dane Received:	91/14/98
( Moisture: not des	. 0	Dare Analyzadı	61714/48
60 Column: ATX-502	(D: 0.53 (mm)	bilution factor	r: 1.0

Soil Extract Volume: _____ful: Soil Aliocot Volume: _____ful)

		CONCENTRATION UN	ing:
CAS NO.	00%200%0	(ug/L or ug/Ky)	US/KS O
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	tranomethine	1	10 1 0 1
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	· Thiorographe	*	10 1 11
	-Metavlone Chietid	1.5	10   01
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10061 027675	trans-t,3-Dichlor-	opropene !	(0) 0,1
15-29-2	~~~Brompform		jo i "u"ji
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591-78-6	· · · · 2 · Bexanone		to l'u'i
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79-34-500 00	l,1,2,2~Tetrachlo	rovstane 🚅:	10 1 (/ 1
(08/88 j~~·	· YOLHARA .		·10 J.U., i
	Chlorobenzene	i	10 1 1 1
11.0-41.4	·Erhylpecsene	i	10 1 4 1
	**** Styrone		10 1 11
1330-26 7 -	···Xvlene ···orai),	I	io r ti,
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1 E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	EPA	SAMPLE	NO.
ł			i
i	VI	BLKC84	i
i			ì

-						i	VBLKC84
Tab	Name:	ACCREDITED	LABS,	INC.	Contract:	1	

Matrix: (soil/water) SOIL Lab Sample ID: VBLKC84

Lab File ID: >C6551 mample wt/vol: 5.0 (g/mL) G

revel: (low/med) LOW Date Received: 01/14/98

W Moisture: not dec. 0 Date Analyzed: 01/14/98

C Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

> CONCENTRATION UNITS: (ne/L or ne/Ke) HG/KG

Number TICs found:		CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG					
CAS NUMBER	COMPOUND NAME	 RT	EST. CONC.	٠,			
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U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab	Name: ACCR	EDITED_LABS_INC	Contract:	
Lab	Code:	Case No.: 8007_	SAS No.:	SDG No.:7987
SOW	No.: ILM03	. 0	•	
		EPA Sample NoFLFB-01 _02(8-9) _02(8-9) _02(8-9) _03(18-1 _05(16-1 _05(9-10 _06(10-1 _06(20-2 _07(10-1 _07(14-1 _07(18-2 _07(18-2 _07(18-2 _07(22-2 _08(10-1 _08(22-2 _10(17-1	Lab Sample ID	
Were	ICP intere	element corrections ap	plied ?	Yes/No YES
Were		cound corrections appl were raw data generate		Yes/No YES
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Sign	ature:		Name:	
Date	•		Title:	/ 7
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INORGANIC ANALYSES DATA SHEET					,		
➡ab Name: ACCR	EDITED_LABS	_INC	Contract: _				08(10-11)
ab Code:	Ca	se No.: 80	07 'SAS No.	: _		s	DG No.: 7987
Matrix (soil/w	ater): SOIL			La	ab Sampi	le	ID: 9800248
evel (low/med): LOW_			Da	ate Rece	eiv	ed: 01/08/98
% Solids:	_97.	3					
Con	ncentration	Units (ug	/L or mg/kg dry	y v	weight):	: M	G/KG
-	CAS No.	Analyte	Concentration	С	Q	М	
•	7440-36-0	Aluminum_ Antimony_ Arsenic	943 5.2 0.46		E* N	P_ P_ F	
	7440-39-3 7440-41-7	Barium_ Beryllium Cadmium	4.5	B U	N	P_ P_ P	
•	7440-43-9 7440-70-2 7440-47-3	Calcium_ Chromium	196	В	N E* N*	P P P	
.	7440-47-3 7440-48-4 7440-50-8	Copper	1.2	U B	N	P_ P	
•	7439-92-1	Iron_ Lead_ Magnesium	1720 0.14 186	Ū	E* N E*	P_ F_ P	

60.7

0.14

 $1.6|\overline{B}$

196 B

1.5 U

79.3 B

0.28 U

0.40 U

EN

N

N

N

p⁻

 $C\overline{\mathtt{V}}$

P

P_ F

 P^{-}

 P^{-}

F P P C 7440-62-2 Vanadium _ 1.5 B N 7440-66-6 Zinc $\overline{1}0.1$ Ν× 0.15 B Cyanide

Manganese

Potassium

Selenium

Thallium

Mercury

Nickel

Silver

Sodium

7439-96-5

7439-97-6

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

Color Before	BROWN	Clarity Before:	OPAQUE	Texture:	MEDIUM
Color After:	COLORLESS	Clarity After:	CLEAR_	Artifacts:	***************************************
Comments:				×	

68 ILM03.0

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCR	EDITED_LABS	_INC	Contract: _		****	_	08 (22-24)
Lab Code:	Ca	se No.: 80	07 SAS No.	:		s	DG No.: 7987
Matrix (soil/wa	ater): SOIL			L	ab Samp	le	ID: 9800250
Level (low/med)): LOW_	_		Da	ate Rec	eiv	ed: 01/08/98
% Solids:	_96.	2					
Cor	ncentration	Units (ug	/L or mg/kg dry	y v	weight)	: M	G/KG
	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	1780	-		\overline{P}	
	7440-36-0	Antimony	5.5	īī	$-\overline{N}$	P	
	7440-38-2	Arsenic	0.44			F	
	7440-39-3	Barium	3.0		N	P_	
	7440-41-7	Beryllium	0.06		N	$_{\rm P}^{-}$	
	7440-43-9	Cadmium	0.79		N	P_	
	7440-70-2	Calcium	212	t i	E*	P_	
	7440-47-3	Chromium	3.9		N*	P^{-}	
	7440-48-4	Cobalt	1.3	Ū	N	P^{-}	
	7440-50-8	Copper	4.9		N	P^{-}	
	7439-89-6	Iron	3590		E*	P^{-}	
	7439-92-1	Lead	0.13	\overline{B}	N	\mathbf{F}^{-}	
	7439-95-4	Magnesium	201	В	E*	P^{-}	
	7439-96-5	Manganese	45.9		EN	P_	
	7439-97-6	Mercury	0.10	_	N	$C\overline{V}$	
	7440-02-0	Nickel	1.7	\overline{B}	N	P	
	7440-09-7	Potassium	193	U		P_	
	7782-49-2	Selenium_	0.39	U		F	
	7440-22-4	Silver	1.7		N	P_	
	7440-23-5	Sodium	107	В		P_	
	7440-28-0	Thallium_	0.27			F_	
	7440-62-2	Vanadium_	3.2	В	N	P_	
	7440-66-6	Zinc	16.4	_	N*	P_	
		Cyanide	0.02	Ū		C	

Color	Before:	BROWN	Clarity	Before:	OPAQUE	Texture:	MEDIUN
Color	After:	COLORLESS	Clarity	After:	CLEAR_	Artifacts:	·····
Commer	nts:					,	

69 ILM03.0

1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE		٥	А	Ŋ.	Ľ	L	Ľ	N	O	
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		INOMOMITO	MINDIOLO DNIN	O11		, –	
Lab Name: ACCR	EDITED_LABS	_INC	Contract: _		Walland and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second a second and a second a second a second a second a second and a second and a secon		10(17-18)
ab Code:	Ca	se No.: 80	07 SAS No.	:		s	DG No.: 7987
Matrix (soil/w	ater): SOIL	<u>'</u>		L	ab Samp	le	ID: 9800255
evel (low/med): LOW			D	ate Rec	eiv	ed: 01/08/98
% Solids:	_97.	5					
Co	ncentration	Units (ug	/L or mg/kg dry	У,	weight)	: M	G/KG
*	CAS No.	Analyte	Concentration	С	Q	М	
-	7429-90-5 7440-36-0	Aluminum_ Antimony_				P_ P_	
_	7440-38-2 7440-39-3 7440-41-7	Arsenic_ Barium_ Beryllium	$ \begin{array}{ccccccccccccccccccccccccccccccccc$	В	 	F_ P_ P	
44 .	7440-43-9 7440-70-2 7440-47-3	Cadmium Calcium Chromium	0.78 211 1.4	В	N_ E*_ N*	P_ P_ P_	
-	7440-48-4	Cobalt	1.3			P	

P_ P_ F_ 7440-50-8 Copper 1.9 B N 1770 Ε× 7439-89-6 Iron $0.14|\overline{U}$ Lead N 7439-92-1 P_ 7439-95-4 Magnesium 141 B E* Manganese $\overline{1}5.9$ EN P^{-} 7439-96-5 0.12 CV 7439-97-6 Mercury N 1.5 Ū P__ P__ Nickel 7440-02-0 N _190 U Potassium 7440-09-7 \mathbf{F}^{-} 7782-49-2 Selenium $\overline{0}.39 | U$ P_ P_ 7440-22-4 Silver 1.5 U 85.1 B 7440-23-5 Sodium F_ P_ P_ C_ Thallium 0.27 U 7440-28-0

Vanadium

Zinc Cyanide

7440-62-2

7440-66-6

Color B	efore:	BROWN	Clarity	Before:	OPAQUE	Texture:	MEDIUM
Color A	fter:	COLORLESS	Clarity	After:	CLEAR_	Artifacts:	
Comment	s:					,	
100 mm							

1.6 B

3.2 B

0.08 B

N

N*



ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

Analytical Data Report

for

LMS One Blue Hill Plaza Pearl River, NY 10965

Project: L A K A R I (650-272)

Accredited Laboratories Case No.: 8039 Date Received: 01/09/98

Field ID	Laboratory Sample #
12 SLUDGE	9800386
13 SLUDGE	9800387
FIELD BLANK	9800388
14(15-16)	9 800389
14 (39-40)	9800390
15(7-8)	9800391
15(11-12)	9800392
15 (19-20)	9800393
15(41-42)	9800394

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

FEB 1 8 1598

For Hazardous Waste Section

Accredited Laboratories, Inc. New York Certification Number 11109. This data has been reviewed and accepted by:

Yun shen Lee, Ph.D.

Technical Director

(732) 541-2025

CORPORATE OFFICES

FAX (732) 541-1383

To be included with all lab data and with each workplan

\$TM

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY ALI CASE # 8039

Customer	Laboratory		An	alytical Re	equiremen	nts	
Sample	Sample	*VOA	*BNA	*VOA	*Pest	*Metals	*Other
Code	Code	GC/MS	GC/MS	GC	PCBs		
		Method	Method	Method	Method		cyanide
		#	#	#	#		
FLGP-ASLUGE	9800386	CLP	CLP			CLP	CLP
FLGP-13 SLUTGE		CLP	CLP			CLP	CLP.
FIELD BLANK	9800 388	CUP	CLP			CLP	CLP
PLGP-HUS-16	9800389	CLP				CLP	CLP
ELGP-14639-4	9800390	CLP					
FLGP -15(7-8)	9800391	CLP					
FLGP-15(11-12) FLGP-15(M-20)	9800392	CLP				CLP	CLP.
FLGP-15(14-20)	9800343	CLP					
FLGP-15/41-42	9800394	CLP					
<u> </u>							
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) , ANALYSES

ALI CASE #8039

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	, Date Extracted	Date
	_		1/9/98	Extracted	Analyzed
9800386	studge	1/8/98	17/78		1/15/98
9800 387	sendye	1/8/98	1/4/78		1/15/48
9800388	agerre	1/8/98	1/9/98		1/14/98
9800389	soil	1/8/98	1/9/98		1/14/98
9800390	wil	1/8/98	1/9/98		1/14/98
9800391	wil	1/8/18	1/9/98		1/14/98
9800392	soil	1/8/18	1/9/98		1/14/18
9801393	poil	118/98	1/9/18		1/15/98
9800394	soil	1/8/98	1/1/98		1/14/98
7		l l	7 (7

B-202 10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

ALI CASE# 8039

Laboratory		Date	Date Rec'd	Date	Date
Sample ID	Matrix	Collected	at Lab	Extracted	Analyzed
9800386	pludge	1/8/18	1/9/98	1/12/98	1/14/98
9800387 9800388	Pludge	1/8/18	1/9/98	1/12/98	1/14/98
9800388	agenia	1/8/98	1/9/98	1/12/98	1/14/98
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B-201 10/95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSES

ALI CASE # 8039

Laboratory			Date Rec'd	Date
Sample ID	Matrix	Metals Requested	at Lab	Analyzed
9800386	sludge	TAL	1/09/98	1/29/98
9800386	sludge	cyasside	1/09/98	1/12/98
9800 387	sludge	VTAL	1/09/98	1/29/98
9800387	plulge	eyanide	1/09/18	1/12/98
9800388	ageous	TH	1/09/98	1/29/98
9800388	ageous	cyanide	1/09/98	1/12/98
9800 389	stil	OTAL	1/09/98	1/29/98
9800 389	sail	cyanide	1/09/98	1/12/98
9800392	sail	TAL	1/09/98	1/29/98
9800392.	pail	cyanide	1/09/98	1/12/98
		<u> </u>	, i	
				-

B-205 10/95

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	GC/MS Semivolatiles Data: Sample Data Target Compound Results - Organic Analysis Data Sheet Tentatively Identified Compounds	76
	Inorganic Data: Sample Data Results - Inorganic Analysis Data Sheet	95

SDG NARRATIVE

Accredited Labs received 2 sludge samples, 1 aqueous sample and 6 soil samples (Project: LAKA RI/FS (650-272);
ALI Case #8039) from LMS Engineers on 1/09/98 for the analyses of Volatile Organics, Base Neutral Acid Extractables, TAL Metals and Total Cyanide.

All analyses were performed within the required holding time.

All soil analyses were reported on a dry weight basis.

In the Volatile Organic analyses, the MDL's are slightly elevated due to the matrix interference for ALI samples #9800386 and #9800387.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Yun-shen Lee, Ph.D.

ACCREDITED LABORATORIES, INC.

ORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD
Client: L M S Test Date Due: 01/22/98 Operations Case Date Due: 01/21/98
Client Project Name: L A K A R I (650-272)
Date Sampled:01/08/98 Date Received:01/09/98 Report Package: Other
Test: VO Test Description: Volatile Organics (VO)
By Method:

	В	y Method:					1		m T	_
SAMPLE I	DENTI	FICATION	M	EX.	TRACTION		ANZ	ALYSIS	TI FLA	-
Field# (Case#	Sample#	X	Date	Time	Init	Date	Time	Init	
12 SLUDGE 13 SLUDGE FIELD BLANK 14 (15-16) 14 (39-40) 15 (7-8) 15 (11-12) 15 (19-20)	8039 8039 8039 8039 8039 8039	9800386 9800387 9800388 9800389 9800390 9800391 9800392 9800393	= GGASSSSS				01/15/98 01/15/98 01/15/98 01/14/98 01/14/98 01/14/98 01/14/98 01/15/98		WL	= Y Y Y
14 (15-16) 14 (39-40) 15 (7-8) 15 (11-12)	8039 8039 8039 8039 8039	9800389 9800390 9800391 9800392	S S S S				01/14/98 01/14/98 01/14/98 01/14/98		- - - -	

Reviewed	by:	Date:_	1/21/98

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge
X=Other
RPT:Report01

Time: 10:54:05

ACCREDITED LABORATORIES, INC.

Time: 10:54:_4

ORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/21	OTHER=NY-ASP A	CLP	METHOD: VO	95-1,Cn	335.2	9800387	9 MS/MSD
Client:	LMS			Onevetie	Test	Date Di	ne: 01/22/98 ne: 01/21/98
Cliant F	wainst Names T	3 17 X			ns case	Date Di	ie: 01/21/98

Client Project Name: L A K A R I (650-272)

Date Sampled:01/08/98 Date Received:01/09/98 Report Package: Other

Test: BNA
Test Description: Base Neutral Acid Extractables (BNA)

QC#:_____

By Method:

							ጥ	ιŌ
SAMPLE IDENTIFICATION	M	EXT	TRACTION		AN	ALYSIS	FLA	AG.
Field# Case# Sample#	t X	Date	Time	Init	Date	Time	Init	:
	=			====	=======	=	 ===	=
12 SLUDGE 8039 9800386	G	01-12-98		dol	0//14/98	Ji _l	200	17
13 SLUDGE 8039 9800387	G							•

Reviewed by: Date: 02/1

Abreviations: Sample Matrix:

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge X=Other RPT:Report01

3

Date: 01/12/98 ACCREDITED LABORATORIES, INC.

Time: 10:54:04

SAMPLE IDENTIFICATION M EXTRACTION ANALYSIS F Field# Case# Sample# x Date Time Init Date Time Init	Test: BNA Test Descr	-	Base Neut		Acid Ext	ractabl	es (BN)	A)	QC#:	
Field# Case# Sample# x Date Time Init Date Time Ini		IDENTI						A	NALYSIS	TIC FLA
	Field#		Sample#	x	Date	Time	Init			Init
								1/14/98		J.F.

Abreviations:Sample Matrix: Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge

X=Other

RPT:Report01

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:52:__3

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Test Date Due: 01/22/98 Operations Case Date Due: 01/21/98 Client: L M S

Case#: Field#: 12 SLUDGE 8039 Sample#: 9800386

Client Sample Description:

Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other

Test: TAL

Test Description: Total Analyte List (TAL)

Project Name: L A K A R I (650-272)

Mtx: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=O

Sample Comments:

ву 1	Method:					LA PREPAR		Y CH RONI AN	CLE ALYSIS	.
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
G	Aluminum	Al				1/se/88	TA.	2-3-98	M	833-2
G	Antimony	Sb					10	2-2-98		<u>833-</u> 2
G	Arsenic	As								
G	Barium	Ва						2/4/48	M	383-22
G	Beryllium	Ве						2-2-98		353-20
G	Cadmium	Cd								
G	Calcium	Ca						2/1/58		833-2
G	Chromium	Cr						2-3-98		833-2
G	Cobalt	Co								
G	Copper	Cu								
G	Iron	Fe						2/3/58		333-2
G	Lead	Pb								
G	Magnesium	Mg						2/4/8		633-22
G	Manganese	Mn						2/4/48	_W	833-22
Qua:	lity control			(s):	DC98					
≥vi	ewed by:	FN		_	Date:	<u>a/c</u>		F	RPT:Rep	ort02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:52:43

Te: Pro Mt:	st: TAL st Descriptio oject Name: I x:A=Aqueous:S mple Comments	A K S=Soil	ARI	(650-	272)	-	=Potabl	QC#: e Water:		ge:X=
	Method:					PREPAR	RATION		ALYSIS	
TX	ELEMENT	SYM			UNITS	DATE	INIT	DATE	INIT	REF
G	Mercury	Hg								
G	Nickel	Ni			-	1/30/98	TA	2/3/43	$\underline{\hspace{1cm}}$	833-
G	Potassium	K		***************************************				1/4/48		833-z
G	Selenium	Se						. ,		
G	Silver	Ag						2/4/18	<u>_w</u>	333-1
G	Sodium	Na						2/2/18		\$ 33- 8
G	Thallium	Tl		***************************************	***					-
G	Vanadium	V			-			28/98	_w_	83)-
G	Zinc	Zn			***************************************				(

Reviewed by: _____ Date: _____

RPT:Report02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:52:

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

	mple Comment		:0=0il:	K=Sol	272) id:F=Fi		=Potabl			ge:X=C
ву 1	Method:					PREPAR	=====	* Al	NALYSIS	
MTX ===	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT ====#	DATE	INIT	REF
G	Aluminum	Al				1/30/98	1			
G	Antimony	Sb				1 '	10		former and the second	***************************************
G	Arsenic	As						J/L	M~	X17- 3
G	Barium	Ba	-							
G	Beryllium	Ве								
G	Cadmium	Cd								
G	Calcium	Ca			***************************************					
G	Chromium	Cr								
G	Cobalt	Co							4.	
G	Copper	Cu					· .			
G	Iron	Fe								
G	Lead	Pb						2/4	AV	<u> 817.3</u>
G	Magnesium	Mg								
G	Manganese	Mn								

Date: 01/12/98 ACCREDITED LABORATORIES, INC. Time: 10:52:4
INORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1.Cn 335.2 9800387.9 MS/MSD

Te: Pro Mt:	st: TAL st Descripti oject Name: x:A=Aqueous: nple Comment	L A K S=Soil	ARI	(650-	272)	lters:P			:G=Slud	
ву і	Method:					PREPAR		Y CHRON: Al	NALYSIS	
MTX ===	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
G	Mercury	Нg					,			
G	Nickel	Ni				1/30/98	VA			***************************************
G	Potassium	K				1 '				
G	Selenium	Se						H8	M	רוצ
G	Silver	Ag								
G	Sodium	Na							***************************************	
G	Thallium	Tl						3/2	~~	<u> </u>
G	Vanadium	V						w		
G	Zinc	Zn	***************************************	*****				1		

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:52:

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Fi Cl Da	ient: L M S eld#: 12 SLU ient Sample te Sampled:	Descri	ption: 98 Date		ase#:	8039	ons Case. Samp	Packa Dle#: 9	Due: 01 9800386 age: Ot	her 🛥
Te: Pro Mt:	st: TAL st Descripti oject Name: x:A=Aqueous: mple Comment	L A K S=Soil	ARI	(650-	272)	lters:P	P=Potable	: Water:		
Ву 1	Method:					PREPAR	ATION	4	ALYSIS	
MTX	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
G	Mercury	Hg				1/2/18	W.	,	•	835-10
G	Nickel	Ni				1/20/18	78	-		
G	Potassium	К			•					
G	Selenium	Se								
G	Silver	Ag								
G	Sodium	Na								-
G	Thallium	Tl								
G	Vanadium	V								. Commenter
G	Zinc	Zn								
							•			-
								<u> </u>		
	lity control		t Number	r(s):	QCS8	- /	All results and the second sec	WIII		
Revi	ewed by:	W		_	Date:_	3/10		F	RPT:Rep	ort02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:52:57

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Case#:

Client: L M S

Test Date Due: 01/22/98 Operations Case Date Due: 01/21/98

8039 Sample#: 9800387

Field#: 13 SLUDGE

Client Sample Description: Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other

Test: TAL

Test Description: Total Analyte List (TAL)

Project Name: L A K A R I (650-272)

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

ру г	Method:					PREPAR	=====		ALYSIS	====
MTX ===	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
G	Aluminum	Al				1/80/98		2/3/43	W	<u> 433}-</u>
G	Antimony	Sb	Management		Manager - Williams - Manager - Manag			2-2-98		833-
G	Arsenic	As								
G	Barium	Ba	W-0-0-1	*				2/4/43	W	433-1
G	Beryllium	Be	***************************************		***************************************			2-8-48		<u> </u>
G	Cadmium	Cđ			,					
G	Calcium	Ca						2/4/18		333
G	Chromium	Cr						22-98		333
G	Cobalt	Co	-							
G	Copper	Cu	***************************************							
G	Iron	Fe		•••				2343		333-
G	Lead	Pb	***************************************						M	
G	Magnesium	Mg		***************************************				2/4/98	W	£33-
G	Manganese	Mn			-			2/4/18	M	453-
Qua I	lity control	Repor	t Number	c(s):	QC98	01307				

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:53:__£

H

IC O	1/21	OTHER=1	ny-asp	A CLP	METH	OD:VO	5-1,Cn	335.2	9800387,	,9 MS/M	SD
C1	ient:	LMS				,	Operati	Tes ons Cas	t Date I	Due: 01	/22/98
		13 SLUI Sample I		ption:	С	ase#:	8039	Sam		9800387	
Da	te Sam	npled: (01/08/	98 Date	e Rec	eived:	01/09/9	8 Repo	rt Packa	age: Ot	her
Tes	st: TA st Des	scription	on: To	tal Ana	lyte	List (7	ral)		QC#		
Pro	oject	Name: I	AK.	ARI	(650-	272)		=Potable	e Water:	G=Slud	qe:X=0
Sai	mple C	Comments	5:								•
By I	Method	l:					LA PREPAR	BORATOR' ATION		ICLE NALYSIS	
MTX		EMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
G	Mercu	ıry	Нд								
G	Nicke	21	Ni				13098	→	2/3/48	_W	333-21
G	Potas	sium	K					<u> </u>	2/4/13		333-22
G	Seler	nium	Se							····	
G	Silve	er	Ag						2/4/48	<u></u> M'	333-26
G	Sodiu	ım	Na						42/18		853-20
G	Thall	lium	Tl						- / /		
G	Vanad	lium	v						2/2/18	<u></u>	833-20
G	Zinc		Zn								
Qua	lity o	control	Repor	t Numbe	r(s):	QC98	01200				
≀evi	ewed 1	by:				Date:]	R PT: Rep	ort02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:52:5

HC 0	1/21	OTHER=NY-ASP	A	CLP	METHOD: VO	95-1,Cn	335.2	9800387,9	Ms/MsD
------	------	--------------	---	-----	------------	---------	-------	-----------	--------

Client: L M S

Test Date Due: 01/22/98 Operations Case Date Due: 01/21/98

Test: TAL

8039

Sample#: 9800387

Field#: 13 SLUDGE

Case#:

Client Sample Description:

Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other

QC#: 98117

Test Description: Total Analyte List (TAL)

Project Name: L A K A R I (650-272)

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

Sample Comments:

G Ant G Ars G Bar G Ber G Cad	uminum imony enic ium yllium lmium	Al Sb As Ba Be Cd			1/80/	<u>8</u>		3/4		<u></u>
G Ars G Bar G Ber G Cad G Cal	senic ium yllium mium	As Ba Be						3/4	M	<u> </u>
G Bar G Ber G Cad G Cal	ium Yllium Imium	Ba Be						3/4	<u>~</u>	<u> </u>
G Ber G Cad G Cal	yllium Imium	Ве								
G Cad G Cal	lmium				1		,		-	
G Cal		Cd			 					
	cium			w	 				***************************************	
G Chr		Ca								-
	omium	Cr								***************************************
G Cob	alt	Co	*****		 					
G Cop	per	Cu					<u> </u>			
G Iro	n	Fe		-	 					
G Lea	ıd	Pb			 			2/4	1	817-
G M ag	nesium	Mg .			 		<u> </u>			-
G Man	ganese	Mn	····		 					••••

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:53: 7!

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MS

Te: Pro Mt:	st: TAL st Descripti pject Name: x:A=Aqueous: mple Comment	L A K S=Soil	ARI	(650-	272)	lters:P			G=Slud	ge: X=(
Ву 1	Method:					PREPAR		RY CHRONI AN	ICLE VALYSIS	
XTN ===	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
G	Mercury	Hg								
G	Nickel	Ni				1/20/98	VA			
G	Potassium	K				 	-10			
G	Selenium	Se						3/8	nu	۲۱٦.
G	Silver	Ag								
G	Sodium	Na		4						***************************************
G	Thallium	т1						9/4	~~	<u> 417-</u>
G	Vanadium	V		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						-
G	Zinc	Zn								

ACCREDITED LABORATORIES, INC. Time: 10:53:0! INORGANIC ANALYSIS LABORATORY CHRONICLE

Cl	ient: L M S					Operati	Test ons Case	Date D	oue: 01	/22/9 /21/9
	eld#: 13 SLU ient Sample		ntion:	C	ase#,:	8039	Samp		800387	
Da	te Sampled:	01/08/	98 Date	e Rec	eived:	01/09/9	8 Repor		-	
	st: TAL	_		1 .	* / c	na r 1		QC#:	9800	17
Pre	st Descripti oject Name:	LAK	ARI	(650-	272)	·				
	x:A=Aqueous: mple Comment		:0=0il:	K=Sol	id:F=F	ilters:P	=Potable	Water:	G=Slud	ge:X≃
	•					T.A	BORATORY	CHRONT	CLE	
Ву 1	Method:					PREPAR			ALYSIS	
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
	Mercury	 Hg				1/24/48	~~~~	125/96		434-
G	Nickel	Ni			-	1000	- 1 to	42.1.0	ΙΟΥ	
Ū		- · - ·				1100130	7			
G	Potassium	K		***************************************					•••••	
G	Selenium	Se								
G	Silver	A g								
G	Sodium	Na		***************************************	***************************************					
G	Thallium	Tl						***************************************		-
G	Vanadium	V								
G	vanautum					1	j j			

		***************************************			····		 		
Quality	control	Report	. Number	(s):_(ic980	BOB			
Reviewed	by:	M		_ Da ⁻	te:	3/16]	RPT:Repo	ort02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

IC O	1/21 OTHER=	NY-ASP	A CLP	METH	OD: VO	95-1,Cn	335.2	9800387	,9 MS/1	MSD
Cl	ient: L M S					Operati	T ions C	est Date ase Date	Due: 01	1/22/98
	eld#: FIELD			C	ase#:	8039			9800388	
Da	ient Sample te Sampled:	01/08/	ption: 98 Date	e Rec	eived:	01/09/9	98 Re	port Pack	age: Ot	ther •
Те	st: TAL							QC#	: 1X0	017
Pr	st Descripti oject Name:	LAK	ARI	(650-	272)					
	x:A=Aqueous: mple Comment		:0=0il:l	K=Sol	id:F=F	ilters:	P=Pota	ble Wat e r	:G=Slud	lge:X=O+
Ву	Method:					L.# PREPAR		ORY CHRON	ICLE NALYSIS	-
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF =
	Aluminum	Al				1/30/88		2348	-W	433-21
A	Antimony	Sb		***************************************	***************************************	1 1		2/2/18		833-20
A	Arsenic	As								
A	Barium	Ва			- 			2/4/48	<u> W</u>	813-21-
A	Beryllium	Ве			***************************************			7/2/98		833-20-
A	Cadmium	Cd								
A	Calcium	Ca						2/1/58		\$33-21
A	Chromium	Cr	SSSAHIIII-	***************************************				2/2/98		<u> \$33-20</u>
A	Cobalt	Co								
A	Copper	Cu								
A	Iron	Fe						- 2/3/98		833-21
A	Lead	Pb			····					
A	Magnesium	Mg						2/4/43	w	833-52
A	Manganese	Mn						2/4/48	W	833-22
							,			
									:	
Qua	lity control	Repor	t Number	r(s):	UC ?	307408				

Reviewed by: _____ Date: ____ //t

15

RPT:Report02

Time: 10:53:

Reviewed by:_____

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

 	_	 	 	 	_	 	/	

Time: 10:53:17

Mt:	oject Name: x:A=Aqueous: mple Comment	S=Soil	A RI:	(650-) K=Sol	272) id:F=Fi	lters:P	=Potable	e Water:	:G=Slud	ge:X=
ву 1	Method:					PREPAR		Al	NALYSIS	
MTX	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
A	Mercury	Нд				-				***************************************
A	Nickel	Ni				1/30/98		2/3/98	-	333-
Α	Potassium	К				1	\	2/4/48		833-2
A	Selenium	Se			·····			-	A	
A	Silver	Ag		***************************************	110000			2/4/18		633-2
A	Sodium	Na						2/8/48		833-
A	Thallium	Tl	-							
A	Vanadium	v						2/2/98	_M_	833-
A	Zinc	Zn			44-41-					1

Date:____

RPT:Report02

			Iì	ORGANI	C ANA	LYSIS	LABORATO	DRY CH	NC. RONICLE		10:53:
нс	01/21	OTHER=	NY-ASP	A CLP	METH	OD:VO	95-1,Cn	335.2	980038	7,9 MS/1	ISD
F	ield#: lient	L M S FIELD Sample mpled:	Descrip	otion: 98 Date		ase#:	8039	ions C S	est Date ase Date ample#: port Pacl	Due: 01 9800388	1/21/98 ⁻ 3
T P M	roject tx:A=A	scripti Name:	L A K A S=Soil:	ARI	(650-	272)	ilters:I		ble Waten		
Ву	Metho	d:					PREPAR	RATION	_	ANALYSIS	
MT		EMENT	SYM	RESULT		UNITS		INIT	DATE	INIT	REF .
 А	Alum	inum	Al				1/30/98				
A	Anti	mony	Sb				1	-			143 7
A	Arse	nic	As						2/4	- m	N)-3
A	Bari	um	Ba								M
A	Bery	llium	Be								
A	Cadm	ium	Cd								
A	Calc	ium	Ca								
A	Chro	mium	Cr								
A	Coba	lt	Co								
A	Сорр	er	Cu					-			
A	Iron	ı	Fe								
A	Lead	l	Pb						<u> 2/4</u>	_ M	<u> </u>
A	Magn	esium	Mg								•
A	Mang	anese	Mn								
								,			

Quality	control Report	Number(s): <u>OC 7807808</u>	
Reviewed	by:	Date:	RPT:Report02

ACCREDITED LABORATORIES, INC. Time: 10:53:1 INORGANIC ANALYSIS LABORATORY CHRONICLE

Tes Tes Pro	te Sampled: st: TAL st Descripti oject Name: k:A=Aqueous: mple Comment	on: To L A K S=Soil	tal Ana A R I	lyte (650-	List (1 272)	TAL)	_	QC#	: 4810	13
3y 1	- Method:					LA PREP A R		Y CHRON	ICLE NALYSIS	;
TX	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
A	Mercury	Нд	***							
A	Nickel	Ni				1/20/78		***************************************	-	
A	Potassium	K			-		~ <u>~</u>			-
A	Selenium	Se		}************************************				3/9	n	117-3
A	Silver	Ag			-			***************************************		
A	Sodium	Na								
A	Thallium	Tl		·	***************************************			3/1	N	17- D
A	Vanadium	V	-					***************************************	·	
A	Zinc	Zn				<u> </u>			_	
							•			

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:53:

HC 0	1/21 OTHE	R=NY-ASP	A CLP	METE	OD: VO	5-1,Cn	335.2	9800387,	9 MS/N	ISD
	ient: L M :	_		C	ase#:	Operati 8039	ons Cas	st Date I se Date I mple#: 9	oue: 01	/21/98
Cl	ient Sampled	e Descri	ption:		***			-		
	st: TAL	. 01,00,	Jo Dac.	- 1100		01,00,0	o Repe		ge. oc	
Te	st Descript oject Name:					TAL)		QC# .	IVA	
Mt:	x:A=Aqueous mple Commen	s:S=Soil	:0=0il:I	K=Sol	id:F=Fi	ilters:P	=Potabl	le Water:	G=Slud	ge:X=0
Ja	mpre commen	ics.				T X	BOD MOD	RY CHRONI	OT E	
Ву 1	Method:					PREPAR		AN	ALYSIS	
MTX	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
A	Mercury	Hg				1/24/98	M	1/29/58		
A	Nickel	Ni				1/20/98				
A	Potassium	ĸ					\			
A	Selenium	Se							· · · · · · · · · · · · · · · · · · ·	
A	Silver	Ag								
A	Sodium	Na	***************************************					•		
A	Thallium	Tl						*****		
A	Vanadium	V		-	***************************************			-		
A	Zinc	Zn								
							-			
Qua	lity contro	ol Repor	t Numbei	c(s):	ac98	01803				
	ewed by:	N	1		Date:	7//7		ī	PT:Rep	ort02

ACCREDITED LABORATORIES, INC.

Time: 10:53:18

INORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client: L M S

Test Date Due: 01/22/98 Operations Case Date Due: 01/21/98

Field#: 14(15-16)

Case#: 8039 Sample#: 9800389

Client Sample Description:

Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other

Test: TAL Test Description: Total Analyte List (TAL)

940017 QC#:

Project Name: LAKA RI (650-272)

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

MTX	Method:	SYM	RESULT	MOT	UNITS	PREPAR ====== DATE	INIT	DATE	IALYSIS INIT	==== REI
=== WIY	ELEMENT	SYM =====	RESULT	====	UNITS	=====	====	DATE		KE1
s	Aluminum	Al		***************************************		130 98	V	2/3/13		<u> 833</u>
s	Antimony	Sb					$-\frac{U}{U}$	1/3/93		<u> </u>
s	Arsenic	As							*****	
s	Barium	Ba						2/4/48	M	833
s	Beryllium	Ве						2/1/48		83
s	Cadmium	Cđ								
s	Calcium	Ca	Fly					2/3/48		83
s	Chromium	Cr						2/2/58		83
s	Cobalt	Co								1
s	Copper	Cu								
s	Iron	Fe		***************************************				1/3/48		83
s	Lead	Pb								
s	Magnesium	Mg	•	-				2/4/93	-w/	633
	Manganese	Mn						2/4/48	_\	833

Date: 01/12/98 ACCREDITED LABORATORIES, INC. Time: 10:53: 4 INORGANIC ANALYSIS LABORATORY CHRONICLE

S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium Tl S Vanadium V 2/2/1 N/ 337	HC 0	1/21 OTHER	=ny-asp	A CLP	METH	OD: VO 9	05-1,Cn	335.2	9800387,	9 MS/M	SD
Case#: 8039 Sample#: 9800389 Client Sample Description: Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other Test: TAL	C1:	ient: L M S					Operati	Tes ons Cas	t Date D	ue: 01	/22/98 ¹
Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other Test: TAL Test Description: Total Analyte List (TAL) Project Name: L A K A R I (650-272) Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Sample Comments: By Method: By Method: TEST Description: Total Analyte List (TAL) Project Name: L A K A R I (650-272) Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Sample Comments: By Method: PREPARATION ANALYSIS MTX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT REF S Mercury Hg S Nickel Ni S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium T1 S Vanadium V				ntion	C	ase#:	8039	Sam	ple#: 9	800389	, 21, 30
Test Description: Total Analyte List (TAL) Project Name: L A K A R I (650-272) Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Sample Comments: LABORATORY CHRONICLE	Dat	te Sampled:	01/08/	98 Date	e Rec	eived:	01/09/9	8 Repo	rt Packa	ige: Ot	her
Project Name: L A K A R I (650-272) Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Sample Comments: LABORATORY CHRONICLE By Method: MTX ELEMENT SYM RESULT MDL UNITS DATE INIT DATE INIT REF S Mercury Hg S Nickel Ni S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium T1 S Vanadium V LABORATORY CHRONICLE PREPARATION ANALYSIS LABORATORY CHRONICLE PREPARATION ANALYSIS LABORATORY CHRONICLE ANALY				4-3 3	1 	T: /8	73 T \		QC#:		
Sample Comments: LABORATORY CHRONICLE PREPARATION ANALYSIS	Pro	oject Name:	LAK	ARI	(650-	272)	-				•
PREPARATION ANALYSIS				:0=011:	K=Sol	id:F=F1	lters:P	=Potabl	e Water:	G=Slud	ge:X=0
MTX ELEMENT SYM RESULT MDL UNITS DATE INIT REF S Mercury Hg									Y CHRONI	CLE	•
S Mercury Hg S Nickel Ni S S S S S S S S S	Ву 1	Method:									
S Nickel Ni	MTX ===										
S Potassium K S Selenium Se S Silver Ag S Sodium Na S Thallium Tl S Vanadium V 2/2/1 N/ 337	s	Mercury	Hg								
S Selenium Se	S	Nickel	Ni				1/20/58	-VA	2/3/48	W	833-41
S Silver Ag 2/4/8 M 333	s	Potassium	K						2/4/48		833-22
S Sodium Na 2/1/13	s	Selenium	Se							,	
S Thallium Tl S Vanadium V 2/2/1 N/ 33/-	s	Silver	Ag						2/4/48	_W	333-28
S Vanadium V	s	Sodium	Na						2/2/98		833-2
	S	Thallium	Tl								
S Zinc Zn	S	Vanadium	V						2/2/91	<u> W</u>	837-20
	s	Zinc	Zn								
	0110	lity contro	l Bonox	+ Numba	r/c) •	ncss	×1503				
Ouality control Penart Number(s): DCS801503							101000				
Quality control Report Number(s): QC980150B	Revi	ewed by:				pate:_			- I		ort02
Quality control Report Number(s): QCS801808 Reviewed by: Date: RPT:Report0									J	1	

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:53:1

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client: L M S

Test Date Due: 01/22/98

Operations Case Date Due: 01/21/98

Field#: 14(15-16)

Case#:

8039

Sample#: 9800389

Client Sample Description:

Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other

QC#: 9(001)

Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I (650-272)

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Ot

Sample Comments:

A W	lethod:					PREPAI		RY CHRON:	NALYSIS	
TX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Aluminum	Al				130/98	VI			
s	Antimony	Sb					10			
s	Arsenic	As						3/4	Nr_	817 -
s	Barium	Ba							***************************************	
s	Beryllium	Ве	Nove-							
s	Cadmium	Cd	410000000							
s	Calcium	Ca			***************************************					
s	Chromium	Cr						***************************************		
s	Cobalt	Co						***************************************		,
s	Copper	Cu								
s	Iron	Fe								
s	Lead	Pb			·			7/1		<u> </u>
s	Magnesium	Mg			····			***************************************		Westernamen
S	Manganese	Mn								

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 1	0:53:~
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Tes Pro	eld#: 14(15- ient Sample te Sampled: st: TAL st Description oject Name: 1 k:A=Aqueous: mple Comment	Descri 01/08/ on: To L A K S=Soil	98 Date tal Ana	e Rec lyte (650-	List (1 272)	8039 01/09/9 CAL)	98 Repo	ole#: ct Pack QC#	9800389 age: Ot : <u> </u>	her _
Ву І	Method:						BORATORY		ICLE NALYSIS	***
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Hg								
s	Nickel	Ni				150/58				
s	Potassium	K				1 1	-			
s	Selenium	Se						3/8	m	<u> </u>
s	Silver	Ag			•					
s	Sodium	Na	,							-
s	Thallium	Tl						<u>∂/4</u>	m	X17-6
s	Vanadium	v								
s	Zinc	Zn			***************************************					
										-

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:53:34

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Cli	ient	t:	L	M	S
-----	------	----	---	---	---

Test Date Due: 01/22/98

Operations Case Date Due: 01/21/98

Field#: 14(15-16)

8039 Case#:

Sample#: 9800389

Client Sample Description: Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other

Test: TAL

QC#: 98001}

Test Description: Total Analyte List (TAL)

Project Name: L A K A R I (650-272)

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

ву і	Method:					LABORATORY CHRONICLE PREPARATION ANALYSIS				
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Hg				(24/48	W,	1/2/11	w	834-10
s	Nickel	Ni		*	***************************************	1/se/58	~v/			***************************************
s	Potassium	K						***************************************		
S	Selenium	Se	<u> </u>							
s	Silver	Ag								
s	Sodium	Na								
s	Thallium	Tl	***************************************	***************************************				····		
s	Vanadium	V								
S	Zinc	Zn				1				

	***************************************	HINDA TO ESSENTIAL HINDAGO					
•							
		_					
H	Quality control	Report Numbe		013015	y - 32		
	Reviewed by:	M	_ Date:_	∂//o		RPT:Repo	rt02

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:53:

HC	01/21	OTHER=NY-ASP	A	CLP	METHOD: VO	95-1,Cn	335.2	9800387,9	MS/MSD
----	-------	--------------	---	-----	------------	---------	-------	-----------	--------

Client: L M S

Test Date Due: 01/22/98 Operations Case Date Due: 01/21/98

Case#: 8039 Field#: 15(11-12) Sample#: 9800392

Client Sample Description:

Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other

Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I (650-272)

Mtx: A=Aqueous: S=Soil:O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Ot

Sample Comments:

ТX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
==				====		1500				4.12.0
S	Aluminum	Al	<u></u>			1/20/10		10 ls	- N	\$33
S	Antimony	Sb						2/2/48		833-
S	Arsenic	As	***************************************			-				
S	Barium	Ва	WOODEN WATER					2/4/43	<u> </u>	633-7
s	Beryllium	Вe		H				2/2/48		333-
S	Cadmium	Cd								
s	Calcium	Ca						2/3/58		8 33-
s	Chromium	Cr						2/2/48		833-2
s	Cobalt	Co								
s	Copper	Cu								
S	Iron	Fe						2/3/93		933-2
S	Lead	Pb								
S	Magnesium	Mg						2/4/48	W	837-
S	Manganese	Mn						2/4/98	N	853-2
	lity control	Ponor	t Numbo	r/c).	- <u>-</u>	SKISEN				

ACCREDITED LABORATORIES, INC. Time: 10:53:49 INORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

3y 1	Method:		_		·	PREPAR		AN	ALYSIS	}
TX	ELEMENT	SYM 1	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Hg								
S	Nickel	Ni				10098	- + A	2/3/48	M	933-
s	Potassium	K			Marian		40	2/4/18		<u>833-</u>
s	Selenium	Se	·							-
S	Silver	Ag _						2/4/43	W	833-2
s	Sodium	Na						42/18		833-
S	Thallium	T1								
S	Vanadium	v						2/2/98	M	833-5
S	Zinc	Zn						1	- (_\

Da	te: 0:	1/12/98	I	A NORGAN	CCREI	OITED LA NALYSIS	ABORATOR: LABORATO	IES, ORY C	INC.	ICLE	Time:	10:53:
HC 0	1/21	OTHER=	NY-ASP	A CI	P MET	HOD: VO	95-1,Cn	335.	2 9	80038	7,9 MS/	MSD
Cl	ient:	LMS					0	•	Test	Date	Due: 0	1/22/98
Fi	eld#:	15(11-	12)			Case#:	0perat: 8039	ions	Case Sampi	Date le#:	980039	01/21/98 ⁻ 02
C1. Da	ient S te Sar	Sample mpled:	Descri 01/08/	ption: 98 Da	te Re	ceived:	01/09/9	98 R	epor	t Pacl	kage: C	ther .
Te: Te: Pro Mt:	st: TA st Des oject x:A=Ac	AL scription	on: To L A K . S=Soil	tal An A R I	alyte	List ((TAL)			QCi	#: 980	
By I	Method	l:					PREPAR	RATIO		CHRO	NICLE ANALYSI	S
MTX		EMENT	SYM	RESUL				INI	_	DATE	INIT	
s	Alumi		Al				1/30/98					
s	Antin	nony	Sb						<i>J</i> 	<u>.</u>		•
S	Arser	nic	As	A						2/4	- ~	17-3
s	Bariu	ım	Ba	6								
s	Bery]	llium	Ве						·····			
s	Cadmi	Lum	Cd									
s	Calci	Lum	Ca									
s	Chron	nium	Cr					1				***************************************
s	Cobal	Lt	Co									-
s	Coppe	er	Cu	*************************************				-				
s	Iron		Fe	<u> </u>						- /,		
S	Lead		Pb							a/4	~v	E. 518

S	Magnesium	Mg					**************************************		
S	Manganese	Mn							
		-			**		 4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
Qua 1	ity control	Report	Number	(s):_	QC98	6400			
Revie	wed by:			Ľ	ate:			RPT:Rep	ort)2

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:53:4

HC	01/21	OTHER=NY-ASP	A	CLP	METHOD: VO	95-1,Cn	335.2	9800387,9	MS/MSD
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Client: L M S

Test Date Due: 01/22/98

Operations Case Date Due: 01/21/98

Field#: 15(11-12)

Case#:

8039

Sample#: 9800392

Client Sample Description:

Date Sampled: 01/08/98 Date Received: 01/09/98 Report Package: Other

Test: TAL

QC#: hyprit

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I (650-272)

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

Sample Comments:

ву і	Method:					LA PREPAR	ABORATORY RATION	CHRON:		
MTX ===	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Нд			,	***************************************			***************************************	111000000
s	Nickel	Ni			-	1/20/98	- TA			
s	Potassium	K								
s	Selenium	Se	·	····	***************************************			9/8	N-	<u>X17-38</u>
s	Silver	Ag								
s	Sodium	Na	A	-						
s	Thallium	Tl	***************************************					3/2	m	817-20
s	Vanadium	V								
s	Zinc	Zn							***************************************	

		-	-					
Quality	control Report	Number(s):	QC980	01501	3	- A.		
Reviewed	by:		Date:			F	RPT:Repo	rt02

Reviewed by:

Cl Fi Cl Da Te Te	ient: L eld#: 1! ient San te Samp st: TAL st Descr	THER=1 M S 5(11-1 mple I led: (NY-ASP 12) Descri D1/08/ Dn: To	NORGANI A CLP ption: 98 Dat tal Ana A R I	METH Ce Rec	COD: VO Case#; eived: List (272)	95-1,Cn Operati 8039 01/09/9	Tes ons Cas Sam Report	PRICLE 9800387 t Date I e Date I ple#: 9 rt Packa	oue: 01 Oue: 01 0800392 age: Ot	/22/98 /21/98 her
Sa	mple Con	mments		:0-011:			LA PREPAR	P=Potable BORATORY ATION	Y CHRONI AN	CLE NALYSIS	
MTX	ELEMI		SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury		Hg				1/24/98	N	1/21/98		
s	Nickel		Ni				1/20/18	-4/1			
S	Potass	ium	K								
s	Seleni	um	Se								
s	Silver		Ag								
s	Sodium		Na								
S	Thalli	um	Tl								
S	Vanadi	um	V								
s	Zinc		Zn			- months - 1 Million and - Million				W	
								•		a.	
Qua	lity co	ntrol	Repor	t Numbe	r(s):	- QCC	1801501	3			

Date: 0 //0

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 10:54:11

Page: 1

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Sample#: 9800386

Client Sample Description:

Client Field Number: 12 SLUDGE

Case#: 8039

Client Project Name: L A K A R I (650-272)

Operations Case Due Date: 01/21/98

Date

Date Sampled: 01/08/98 Date Received: 01/09/98

Report Package: Other

Phases:

Pilas	Test		ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS			
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
G	% SOLIDS	01/22/98	····		P						
G	CN	01/22/98		0.83	. كالجد	01/12/98	_EM	01/12/98	3~	841-15	

30

Reviewed By: _____ Date: ____

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:54:19

Page: 2

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Sample#: 9800387

Client Sample Description:

Case#: 8039

Client Project Name: L A K A R I (650-272)

Operations Case Due Date: 01/21/98

Client Field Number: 13 SLUDGE

Date Sampled: 01/08/98 Date Received: 01/09/98

Report Package: Other

Phases:

		Test	ANALY	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS	
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
G	% SOLIDS	01/22/98	***************************************					•	***************************************	
G	CN	01/22/98		1.38	<u>my/k</u> _ 9	01/12/98	EM	01/12/98	J=1	841-15

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-			١

Reviewed	Bv:	Γ	Date:	
	-			

Accredited Laboratories, Inc.
General Chemistry Laboratory Chronicle

Time: 10:54:26

Page: 3

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650-272)

Client Field Number: FIELD BLANK

Sample#: 9800388

Case#: 8039

Operations Case Due Date: 01/21/98

Date Sampled: 01/08/98

Date Received: 01/09/98

Report Package: Other

Phases:

		Test	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		_	
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
A	CN	01/22/98	***************************************	0.01	my/L	01/2/96	<u> </u>	01/12/98	<u>_</u>	841-15	

52

Reviewed By: _____ Date: ____

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 10:54:33

Page: 4

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Sample#: 9800389

Client Sample Description:

Case#: 8039

Client Project Name: L A K A R I (650-272)

Operations Case Due Date: 01/21/98

Client Field Number: 14(15-16)

Date Sampled: 01/08/98 Date Received: 01/09/98

Report Package: Other

Phases:

rnab	Test		ANAL	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
s	% SOLIDS	01/22/98									
s	CN	01/22/98	************************	0.53		01/12/98	52	01/12/96	<u>&</u>	841-15	

6
V)

Reviewed B	y :	Da	ate:	

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:54:55

Page: 7

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650-272)

Client Field Number: 15(11-12)

Sample#: 9800392

Case#: 8039

Operations Case Due Date: 01/21/98

Date Sampled: 01/08/98

Date Received: 01/09/98

Report Package: Other

Phases:

	Te		ANALY	TICAL D	CICAL DATA		SAMPLE PREP		SAMPLE ANALYSIS	
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/22/98		*****		***************************************				
S	CN	01/22/98		0.45	my 1 kg	Q1/12/98		01/12/98	<u> </u>	841-16

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Reviewed By: _____ Date: ____

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 10:54:11

Page: 1

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650-272)

Client Field Number: 12 SLUDGE

Sample#: 9800386

Case#: 8039

Operations Case Due Date: 01/21/98

Date Sampled: 01/08/98

Date Received: 01/09/98

Report Package: Other

Phases:

	Test		ANALYTICAL DATA			SAMPLE	PREP	SAMPLE ANA		
îtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
G	% SOLIDS	01/22/98	59.4	010	<u> </u>	1/13/98	The	4/14/8	pr	3/27
G	CN	01/22/98								

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:54:19

Page: 2

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Sample#: 9800387

Client Sample Description:

Case#: 8039

Client Project Name: L A K A R I (650-272) Client Field Number: 13 SLUDGE Operations Case Due Date: 01/21/98

_ Dat

Date Sampled: 01/08/98 Date Received: 01/09/98

Report Package: Other

Phases:

		Me art	ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE AND	ALYSIS	
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
G	% SOLIDS	01/22/98	35.8	0.10	<u> </u>	[]\s/\s/	Da	1/14/44	Du	3/27
G	CN	01/22/98							***************************************	

9

Reviewed By:

Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

Accredited Laboratories, Inc.
General Chemistry Laboratory Chronicle

Time: 10:54:33

Page: 4

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650-272)

Client Field Number: 14(15-16)

Sample#: 9800389

Case#: 8039

Operations Case Due Date: 01/21/98

Date Sampled: 01/08/98

Date Received: 01/09/98

Report Package: Other

Phases:

	·	Test	ANALY	rical D	ATA	SAMPLE	PREP	SAMPLE ANA	LYSIS	
1tx	Analytes [Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/22/98	N 85.3	0,10	<u>'</u>	1/13/94	M	1/1/11	Jm	3127
s	CN	01/22/98	No. of the Control of				-			

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:54:41

Page: 5

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650-272)

Client Field Number: 14(39-40)

Sample#: 9800390

Case#: 8039

Operations Case Due Date: 01/21/98

Date Sampled: 01/08/98

Date Received: 01/09/98

Report Package: Other

Phases:

		Mo.a+	ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/22/98	89.5	0,10	<u> </u>	1/13/21	R	4/14/18	pu	3168

Reviewed By:

Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 10:54:48

Page: 6

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650-272)

Client Field Number: 15(7-8)

Sample#: 9800391

Case#: 8039

Operations Case Due Date: 01/21/98

Date Sampled: 01/08/98

Date Received: 01/09/98

Report Package: Other

Phases:

· nabo		Ma at	ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/22/98	97.3	0,10	<u> </u>	1/13/98	M	1/14/28	Pu	3128

0

Reviewed By:

Date: _ /-/4-

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 10:54:55

Page: 7

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Sample#: 9800392

Client Sample Description:

Case#: 8039

Client Project Name: L A K A R I (650-272)

Operations Case Due Date: 01/21/98

Client Field Number: 15(11-12)

Date Sampled: 01/08/98

Date Received: 01/09/98

Report Package: Other

Phases:

111450			ANALY	TICAL DA	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/22/98	98,3	0.10	<u> </u>	1/13/94	m	1/14/88	In	3128
S	CN	01/22/98	***************************************						***************************************	

40

Reviewed By:

Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 10:55:03

Page: 8

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 Ms/MsD

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650-272)

Client Field Number: 15(19-20)

Sample#: 9800393

Case#: 8039

Operations Case Due Date: 01/21/98

Date Sampled: 01/08/98

Date Received: 01/09/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLE	E PREP	SAMPLE ANA		
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/22/98	97.7	0,10	<u>/.</u> .	1/13/4	Du	1/14/94	Du	3/28

7

Reviewed By:

Date:

RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:55:11

Page: 9

HC 01/21 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 9800387,9 MS/MSD

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650-272)

Client Field Number: 15(41-42)

Sample#: 9800394

Case#: 8039

Operations Case Due Date: 01/21/98

Date Sampled: 01/08/98

Date Received: 01/09/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE ANA	ALYSIS	
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/22/98	93.8	0,10		1/13/28	m	1/1/9/	Du	3/18

Reviewed By: _______ Date: ______

ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FORM

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

	i	. *	1
PAGE	<u>/</u>	OF_	

CLIENT	LMS EN	inoers
ADDRESS	ONE Blue	Hill Plaza
CITY	Pearl Rive	
STATE	NY	ZIP 10965

PROJECT	LAKA RI (650-272)	7
CONTACT	Maria Heinz	_
PHONE	914-735-8300	7
FAX	914-735-7466	-

ALI SAMPLE:#	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE I	DESCRIPTION	ANALYSIS
9800386	FLGP-12 Sludge	1	G	1-8-98/0800	Karat Shor	leadypad	VOC
9800387	FLGP-135Wage		G	1-8-98 /0820		ч ′	VOC; MS; MSD
	FLGP-12 Sludge			1-8-98/0814	U	4	BNA/TAL Metals / CN-
	FIGP-13 Stude		G	1-8-98/0825	11		BNA/TAL Motols/CN; MS; MSD
9800338	Field Black	1		1-8.18/0856	Sludge	field black	
	Field Blank	2	A	1-8-98/0858	ı,	t i	BNA
	Field Blank	1	A	1-8-98/0904	te		CN-
	Field Blank	ļ	А	1-8-98/0906	1(TAL Metals
9800039	FLGP-14 (15-16)	3	5	1-8-98/1200	Geoprobe	Sampling	VOC; MS; MSD
	FLGP-14 (15-16)	13	5	1-8-98/1211	1 "	"1"	Metals + CN; MS; MSD
9800090	FLGP-14 (39-40)	1	5	1-8-98/1300	//		Voc
9800091	FLGP-15 (7-8)	1	_5	1-8-98/1415	. "	V	Voc
	FLGP-15 (11-12)	1	5	1-8-98/1420	- 11	<i>^</i>	Voc
	FLGP-15 (11-12)	1	5	1-8-98/1426	/1	"	TAL Metals / CN-
9800093	FLGP-15(19-20)	1	5	1-8-98/1430	11	11	VOC
9800394	FLGP-15 (41-42)	1				1/	Voc
Les cators as at attaces.	200000000000000000000000000000000000000	بالمالية	2 1	. 그는 화가 상탁된	Carry March 1981	E WATER O=0	IL F=FILTER K=SOLID X=OTHER

**M = MATRIX A=A(QUEOUS S=SOII	L G=SLUDGE P=F	OTABLE WATER	R. O=OIL	F=FILTER	K∈SOL	ID X≃OTHER
*C = NO. CONTAINERS	TURNAROUN	ND:	A			(If BI	ank, Std. 3 weeks)
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¥ 54 PERSON(S) ASSUMING RESF	eled and shippe PONSIBILITY FOR			relit Englert	Mentine	Alex	I /9/98 12:
COMMENTS					ALI QUOT	7.39	08039
					P.O.#		0000

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Case No	•	8039		Check if No Seal or	n Sample Shuttle		
	Field	#	Laboratory #	Test Name	Date Sa	ampled	Date Received
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		Signature		Signature		1	
	i	Printed Na	me	Printed Name		: !	
! 	 	Signature		Signature		1 	

291 COC

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Case No	•	8039	-	Check if No Seal on S	Sample Shuttle	•		
•	Field	#	Laboratory #	Test Name	Date Sa	mpled	Date Received	
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FORM: 291COC

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	Field	l #	Laboratory #	Test	Name	Date Sa	ampled	Date Receiv	ed
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Field S	ample Se	al No	me o	Date Broken://_	Military	Time Seal	Broken	
Case No	•	8039		Check if No Seal on	Sample Shuttle	•		
	Field	#	Laboratory #	Test Name	Date Sa	ampled	Date Receive	d.
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FORM: 291COC Printed Name

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Seal on	Sample	on Breaking Shuttle & / for Sample	Nacantina	ry: Accredited Laborator N. ANTONE		ocation: C	_
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Case No.	-	8039		Check if No Seal on Sa	mple Shuttle	•	
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FORM:

91 COC

METHODOLOGY SUMMARY

Volatile Organics: EPA-CLP-SOW (Document Number OLM03.1)

Water Samples

Volatile organic compounds are purged from a 5ml sample at ambient temperature by bubbling an inert gas through the aqueous sample. The volatile organics are efficiently transferred from aqueous phase to the vapor phase and then trapped onto a sorbent column. When purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the volatile organics from the sorbent column to a GC column. The GC is temperature programmed to separate the volatile organics which are then detected and quantified with a mass spectrometer.

Soil/Sediment Samples

a. Low level:

An inert gas is purged through a mixture containing 5g of sample and reagent water at an elevated temperature. The volatile organics are efficiently transferred from aqueous phase to the vapor phase and then trapped onto a sorbent column. When purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the volatile organics from the sorbent column to a GC column. The GC is temperature programmed to separate the volatile organics which are then detected and quantified with a mass spectrometer.

Semi-volatile Organics: EPA-CLP-SOW (Document Number OLM03.1)

Water Samples

A one liter aliquot of sample is acidified to pH 2 and extracted with methylene chloride using a continuous liquid-liquid extractor. The methylene chloride extract is dried and concentrated to a volume of 1.0ml. The final sample extract is spiked with internal standards and analyzed by a GC/MS system.

Soil/Sediment Samples

a. Low level:

A 30gm portion of sample is mixed with anhydrous Na₂SO₄ and extracted with 1:1 methylene chloride/acetone using an ultrasonic probe. The extract is dried and concentrated. The concentrated extract is subjected to GPC cleanup and analyzed by a GC/MS system.

TAL Metals: EPA-CLP-SOW (Document Number ILM04.0)

Water Samples

a. Furnace AA Analysis:

A 100ml portion of sample is digested with nitric acid and 30% H_2O_2 on a hot plate for 2 hours at 95°C or until sample volume is reduced to between 25 and 50ml. The digested sample is

cooled, filtered and volume-adjusted to 100ml with reagent water. The digestate is then analyzed by Graphite Furnace Atomic Absorption Spectroscopy.

b. ICP and Flame AA Analysis:

A 100ml portion of sample is digested with the mixed acids of nitric acid and hydrochloric acid on a hot plate for 2 hours at 95°C or until sample volume is reduced to between 25 and 50ml. The digested sample is cooled, filtered and volume-adjusted to 100ml with reagent water. The digestate is then analyzed by either Flame Atomic Absorption Spectroscopy or Inductively Coupled Plasma Spectroscopy.

c. Cold Vapor Technique for Mercury Analysis:

A 100ml portion of sample is digested with the mixed acids (sulfuric acid and nitric acid) and the oxidizing agents (potassium permanganate and potassium persulfate) in a water bath at 95°C. The excess potassium permanganate in the cooled digestate is reduced by adding the sodium chloride-hydroxylamine sulfate. The mercury in the digestate is reduced to the elemental state and detected by Cold Vapor Atomic Absorption Spectroscopy.

Soil/Sediment Samples

A 1gm portion of sample is digested with nitric acid and hydrogen peroxide. The digestate is then refluxed with either nitric acid or hydrochloric acid. Diluted hydrochloric acid is used as the final reflux acid for the Furnace AA analysis of Sb, the Flame AA or ICP analysis of Al, Sb, Ba, Be, Ca, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Tl, V and Zn. Nitric acid is employed as the final reflux acid for the Furnace AA analysis of As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, Se, Ag, Tl, V and Zn. For the graphite furnace analysis, an aliquot of the digestate is spiked with modifier solution and is placed into the graphite furnace. aliquot is then slowly evaporated to dryness, charred and atomized. The absorption of the EDL radiation during atomization is proportional to the element concentration. For the flame AA, the digestate is aspirated and atomized in a flame. The absorption of the HCL radiation during atomization is proportional to the element concentration. The basis of ICAP method is the measurement of atomic emission by an optical spectroscope technique. The emission spectra are dispersed by a grating spectrometer and the intensities of the line are measured and processed by a computer system. mercury analysis, a 0.2gm portion of sample is digested with potassium permanganate and persulfate at acidic condition in a water bath at 95°C. The mercury in the sample is reduced to the elemental state and detected by the cold vapor technique in a closed system.

Total Cyanide: EPA-CLP-SOW (Document Number ILM03.0)

Water Samples

50

A 500ml portion of sample is placed into a cyanide distillation apparatus. Hydrogen cyanide gas is liberated from the aqueous solution upon addition of sulfuric acid, magnesium chloride solution and heat. The hydrogen cyanide gas is trapped in a scrubber containing sodium hydroxide solution. The color is formed

when the reagents of chloramine-T and pyridine-barbifuric acid mixture is added into scrubber solution. The intensity of the color is measured spectrophotometrically and is proportional to the concentration of cyanide in the solution.

Soil/Sediment Samples

A 1-5gm portion of sample mixed with reagent water is placed into a cyanide distillation appartus. Hydrogen cyanide gas is liberated from the aqueous solution upon addition of sulfuric acid, magnesium chloride solution and heat. The hydrogen cyanide gas is trapped in a scrubber containing sodium hydroxide solution. The color is formed when the reagents of chloramine-T and pyridine-barbifuric acid mixture is added into scrubber solution. The intensity of the color is measured spectrophotometrically and is proportional to the concentration of cyanide in the solution.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

12SLUDGE

Lab Name: ACCREDITED LABS, INC. Contract: Lab Code: 11109	
,	
Matrix: (soil/water) SOIL Lab Sample ID: 9800386	
Sample wt/vol: 1.0 (g/mL) G Lab File ID: >C6587	
Level: (low/med) LOW Date Received: 01/09/98	
% Moisture: not dec. 41 Date Analyzed: 01/15/98	
GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0	
Soil Extract Volume:(uL) Soil Aliquot Volume:	_(uL)
CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q	
74-87-3	

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC.	Contract:	12SLUDGE
Lab Code: 11109	SAS No.: SDG No	· :
Matrix: (soil/water) SOIL	Lab Sample ID: 9	800386

Level: (low/med) LOW Date Received: 01/09/98

Sample wt/vol: 1.0 (g/mL) G

Number TICs found: 10

% Moisture: not dec. 41 Date Analyzed: 01/15/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Lab File ID: >C6587

CAS NUMBER COMPOUND NAME EST. CONC. ______ The color and the color was properties and the color and t Unknown Hydrocarbon 16.13 1600 N Unknown Hydrocarbon 18.19 770 Ν 3. 565753 Pentane, 2,3,4-trimethyl- (8 Unknown Hydrocarbon 19.19 1200 Ν 19.51 2000 N Octane, 2,5-dimethyl- (8CI9C Nonane, 3-methyl- (8CI9CI) Benzene, 1-ethyl-2-methyl- (Benzene, 1-ethyl-2-methyl- (Unknown Hydrocarbon 5. 15869893 6. 5911046 26.72 2000 Ν 5911046 27.04 920 Ν 611143 7. 28.55 3800 Ν 8. 611143 29.60 3800 Ν 9. 29.83 1500 N 10. Unknown Aromatic 30.06 1500 N 11._ 12. 13. 14.___ 15.___ 16.____ 17.___ 18.____ 19. 20. 21. _ 22. 24. 25. 26.__ 27._ 28.__ 29.___ 30.__

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

13SLUDGE

Lab Name: ACCREDITED LAB	BS, INC. Contract	•	
Lab Code: 11109 Case	e No.: 8039 SAS No.	; SDG No	o.:
Matrix: (soil/water) SOI	L	Lab Sample ID:	9800387
Sample wt/vol: 1.0	(g/mL) G	Lab File ID:	>C6588
Level: (low/med) LOW		Date Received: (01/09/98
% Moisture: not dec. 64		Date Analyzed: (01/15/98
■ GC Column: RTX-502 ID:	0.53 (mm)	Dilution Factor:	: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	lume:(uL)
CAS NO.		NTRATION UNITS: or ug/Kg) UG/KG	Q
67-64-1A 75-15-0C 75-35-41 75-34-31 540-59-01 67-66-3 178-93-3 71-55-61 56-23-5 75-27-4	romomethane inyl Chloride hloroethane ethylene Chloride cetone arbon Disulfide ,1-Dichloroethene ,2-Dichloroethene (tothloroform ,2-Dichloroethane -Butanone ,1,1-Trichloroethane arbon Tetrachloride romodichloromethane ,2-Dichloropropane is-1,3-Dichloropropene is-1,3-Dichloropropene richloroethene ibromochloromethane ,1,2-Trichloroethane enzene rans-1,3-Dichloroproper romoform -Methyl-2-Pentanone -Hexanone etrachloroethene ,1,2,2-Tetrachloroetha oluene hlorobenzene thylbenzene tyrene	tal) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	140

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	ИО

Lab	Name:	ACCREDITED	LABS, INC.	Contract:		13SLUDGE
Lab	Code:	11109	Case No.: 8039	SAS No.:	SDG	No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 9800387

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: >C6588

Level: (low/med) LOW

Date Received: 01/09/98

% Moisture: not dec. 64

Date Analyzed: 01/15/98

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

ID: 0.53 (mm)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

Number TICs found: 10

GC Column: RTX-502

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
1.	Unknown Hydrocarbon	16.09	2500	====
1. 2.	Unknown Hydrocarbon	19.56	2400	N
3.	Unknown Hydrocarbon	19.97	2000	N
4.	Unknown Hydrocarbon	23.21	1200	N
5.	Unknown Hydrocarbon	23.39	1400	N
6. 2216333	Octane, 3-methyl- (8CI9CI)	23.71	1100	Ν
	Unknown Hydrocarbon	26.72	2100	N
8. 611143	Benzene, 1-ethyl-2-methyl- (28.50	3200	N
9. 611143	Benzene, 1-ethyl-2-methyl- (29.60	2900	N
0.	Unknown Hydrocarbon	29.83	990	N
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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	1 11
Lab Name: ACCREDITED LABS, INC. Co.	ntract:
Lab Code: 11109	AS No.: SDG No.:
Matrix: (soil/water) WATER	Lab Sample ID: 9800388
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: >C6552
Level: (low/med) LOW	Date Received: 01/09/98
% Moisture: not dec	Date Analyzed: 01/14/98
■ GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)

COMPOUND

CAS NO.

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

10 H 74-87-3-----Chloromethane IJ 10 74-83-9-----Bromomethane 75-01-4-----Vinyl Chloride 10 11 75-00-3-----Chloroethane 10 U 75-09-2----Methylene Chloride 10 U 67-64-1-----Acetone 10 UÌ 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene 75-34-3----1,1-Dichloroethane 10 U 10 U 10 U 540-59-0----1,2-Dichloroethene (total) 10 Ū 67-66-3-----Chloroform Ū 10 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 56-23-5-----Carbon Tetrachloride 10 U 10 Ū 75-27-4-----Bromodichloromethane 78-87-5----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6----Trichloroethene 10 U IJ 124-48-1----Dibromochloromethane 10 U 79-00-5----1,1,2-Trichloroethane 10 U 10 71-43-2----Benzene 10061-02-6----trans-1,3-Dichloropropene 10 [1 U 75-25-2----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone 10 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene Ū 10 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4----Ethylbenzene U 10 100-42-5-----Styrene 1.0 U 1330-20-7-----Xylene (total) 10 U

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

LPA	SAMPLE	NO
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Lab Name: ACCREDITED	LABS, INC. C	ontract:	FB
Lab Code: 11109	Case No.: 8039	SAS No.: SDG No	·:
<pre>Matrix: (soil/water)</pre>	WATER	Lab Sample ID: 9	800388
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID: >	·C6552
Level: (low/med)	LOW	Date Received: 0	01/09/98
% Moisture: not dec.		Date Analyzed: 0	1/14/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
Number TICs found:	1	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	•

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Hydrocarbon	8.75	53	N
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

14-15-16

Lab Name: ACCREDITE	D LABS, INC.	Contract:	14-13-16
Lab Code: 11109	Case No.: 8039	SAS No.:S	DG No.:
Matrix: (soil/water) SOIL	Lab Sample	ID: 9800389
Sample wt/vol:		Lab File ID	· >C6555
-			
Level: (low/med)	LOW	Date Receiv	ed: 01/09/98
% Moisture: not dec	. 15	Date Analyz	ed: 01/14/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Fa	ctor: 1.0
Soil Extract Volume:	:(uL)	Soil Aliquo	t Volume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNIT (ug/L or ug/Kg) U	
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 75-34-3 75-66-3 78-93-3 71-55-6 75-27-4 78-87-5 79-01-6 79-01-6 79-00-5 71-43-2 104-48-1 79-00-5 75-25-2 108-10-1 591-78-6 127-18-4 79-34-5 108-88-3 108-90-7 100-41-4 100-42-5	Carbon Disulfi1,1-Dichloroet1,2-Dichloroet1,2-Dichloroet1,2-Dichloroet2-Butanone1,1,1-TrichlorCarbon TetrachBromodichlorom1,2-Dichloroprcis-1,3-Dichlorom1,1,2-TrichlorDibromochlorom1,1,2-TrichlorBenzenetrans-1,3-DichlorBromoform4-Methyl-2-Pen2-HexanoneTetrachloroeth1,1,2,2-TetracTolueneChlorobenzene	de chene chane chane coethane cloride cethane copane cropropene cethane coethane coethane cothane cothane cothane cothane cothane coethane coethane coethane coethane	12 U 12 U 12 U 12 U 12 U 12 U 12 U 12 U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE	NC
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Lab Name: ACCREDITED LABS, INC.	Contract: 14-15-16
Lab Code: 11109 Case No.: 8039	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800389

Date Received: 01/09/98 Level: (low/med) LOW

% Moisture: not dec. 15 Date Analyzed: 01/14/98

GC Column: RTX-502 Dilution Factor: 1.0 ID: 0.53 (mm)

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Lab File ID: >C6555

Number TICs found: 4 (ug/L or ug/Kg) UG/KG

Sample wt/vol: 5.0 (g/mL) G

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Hydrocarbon	8.75	43	N
2	Unknown	21.11	6	N
	Unknown	26.63	6	N
4.	Unknown Hydrocarbon	29.14	9	N
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

14-39-40	

Lab Name: ACCREDITED	LABS, INC.	Contract:	14-39-40
		SAS No.:SD	G No.:
Matrix: (soil/water)	SOIL	Lab Sample I	D: 9800390
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>C6556
Level: (low/med)	LOW	Date Receive	d: 01/09/98
% Moisture: not dec.	11	Date Analyze	d: 01/ 1 4/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Fac	tor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot	Volume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNIT	
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-34-3 75-34-3 75-34-3 75-34-3 75-66-3 107-06-2 78-93-3 75-27-4 75-27-4 79-01-6 124-48-1 79-01-6 124-48-1 79-00-5 124-48-1 79-00-5 1061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 108-88-3 108-90-7 100-41-4 100-42-5	Carbon Disulfil1,1-Dichloroet1,2-Dichloroet1,2-Dichloroet1,2-Dichloroet2-Butanone1,1,1-TrichlorCarbon TetrachBromodichlorom1,2-Dichloroprcis-1,3-DichloromTrichloroethenDibromochlorom1,2-TrichlorBenzenetrans-1,3-DichBenzenetrans-1,3-DichBromoform4-Methyl-2-Pen2-HexanoneTetrachloroeth1,1,2,2-TetracTolueneChlorobenzeneEthylbenzene	ride de hene hane hene (total) hane oethane loride ethane opane ropropene e ethane oethane loropropene tanone ene	11

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO

			14-39-40
Lab Name: ACCREDI	TED LABS, INC.	Contract:	14-39-40
Lab Code: 11109	Case No.: 8039	SAS No.: SDG N	o.:
Matrix: (soil/wate	er) SOIL	Lab Sample ID:	9800390
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>C6556
Level: (low/med) LOW	Date Received:	01/09/98
% Moisture: not de	ec. 11	Date Analyzed:	01/14/98
GC Column: RTX-50	2 ID: 0.53 (mm)	Dilution Factor	: 1.0
Soil Extract Volum	me:(uL)	Soil Aliquot Vo	lume:(uL)
Number TICs found	d: 1	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	•
CAS NUMBER	COMPOUND NA	AME RT EST	. CONC. Q
1.	Unknown Hydrocarbor	8.75	38 N
3.			

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Hydrocarbon	8.75	38	N
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCREDITE	D LABS, INC.	Contract:	13-7-8
Lab Code: 11109	Case No.: 8039	SAS No.:SDG	No.:
Matrix: (soil/water) SOIL	Lab Sample ID:	9800391
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	> C 6557

Level: (low/med) LOW Date Received: 01/09/98

% Moisture: not dec. 3 Date Analyzed: 01/14/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

CAS NO.

Soil Extract Volume: ____(UL) Soil Aliquot Volume: ____(UL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 U 75-01-4-----Vinyl Chloride 10 U 75-00-3-----Chloroethane 10 U 75-09-2-----Methylene Chloride 10 U 67-64-1-----Acetone 10 U 75-15-0-----Carbon Disulfide 10 U 75-35-4----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane Ū 10 540-59-0----1,2-Dichloroethene (total) 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 U 78-93-3----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 IJ 75-27-4----Bromodichloromethane 10 Ū 78-87-5----1,2-Dichloropropane_ 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 10 U 124-48-1----Dibromochloromethane 10 U 79-00-5----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 10061-02-6----trans-1,3-Dichloropropene 10 Ù. 10 U 75-25-2-----Bromoform 10 11 108-10-1----4-Methyl-2-Pentanone10 U 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 П 100-41-4----Ethylbenzene U 10 100-42-5----Styrene 10 U 1330-20-7-----Xylene (total) 10 H

1EVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

			TEN	TATIVELY	IDENTIFIED	COMPOUNDS	15-7-8	
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:			

Matrix: (soil/water) SOIL Lab Sample ID: 9800391

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >C6557

Level: (low/med) LOW Date Received: 01/09/98

% Moisture: not dec. 3 Date Analyzed: 01/14/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3.	Unknown Hydrocarbon Unknown Unknown	8.75 21.11 26.54	45 5 5	N N N N
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15-11-12

Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109 Case No.: 8	039 SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800392
Sample wt/vol: 5.0 (g/m	L) G Lab File ID: >C6562
Level: (low/med) LOW	Date Received: 01/09/98
% Moisture: not dec. 2	Date Analyzed: 01/14/98
■ GC Column: RTX-502 ID: 0.53	(mm) Dilution Factor: 1.0
Soil Extract Volume:(uL) Soil Aliquot Volume:(uL
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
74-87-3	Name

1EVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

1	5-11-12

Lab	Name:	ACCREDITE	LABS, INC.	Contract:	15-11-12
Lab	Code:	11109	Case No.: 8039	SAS No.:	SDG No.:

5.0 (g/mL) G Sample wt/vol: Lab File ID:

Matrix: (soil/water) SOIL

Level: (low/med) LOW Date Received: 01/09/98

% Moisture: not dec. 2 Date Analyzed: 01/14/98

GC Column: RTX-502 Dilution Factor: 1.0 ID: 0.53 (mm)

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Lab Sample ID: 9800392

>C6562

Number TICs found: 2 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1 . 2 . 3 .	Unknown Hydrocarbon Unknown	8.72 26.51	62	N N
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1 A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15-19-20

Lab Name: ACCREDITED LABS, INC.	ontract:
Lab Code: 11109	SAS No.: SDG No.:
■ Matrix: (soil/water) SOIL	Lab Sample ID: 9800393
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >C6578
■ Level: (low/med) LOW	Date Received: 01/09/98
% Moisture: not dec. 2	Date Analyzed: 01/15/98
■ GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
74-87-3	10

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108-10-1----4-Methyl-2-Pentanone

79-34-5----1,1,2,2-Tetrachloroethane

127-18-4----Tetrachloroethene

591-78-6----2-Hexanone

108-90-7-----Chlorobenzene

1330-20-7-----Xylene (total)

100-41-4----Ethylbenzene

108-88-3----Toluene

100-42-5----Styrene

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO
	-	· · · · · · · · · · · · · · · · · · ·
15	5-19-20	1

Lab Name: ACCREDITED LABS,	INC. Contract	•	
Lab Code: 11109 Case N	lo.: 8039 SAS No.	: SDG N	o.:
Matrix: (soil/water) SOIL		Lab Sample ID:	9800393
Sample wt/vol: 5.0	(g/mL) G	Lab File ID:	>C6578
Level: (low/med) LOW		Date Received:	01/09/98
% Moisture: not dec. 2		Date Analyzed:	01/15/98
GC Column: RTX-502 ID: 0).53 (mm)	Dilution Factor	: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	lume:(uL)
Number TICs found: 1		NTRATION UNITS:	•

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
•	Unknown Hydrocarbon	8.75		N =====
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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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						15-41-42
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	

Lab Code: 11109 Case No.: 8039 SAS No.: SDG No.:

■ Matrix: (soil/water) SOIL Lab Sample ID: 9800394

Sample wt/vol: 5.0 (q/mL) G Lab File ID: >C6564

Level: (low/med) LOW Date Received: 01/09/98

% Moisture: not dec. 6 Date Analyzed: 01/14/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

COMPOUND

CAS NO.

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

74-87-3-----Chloromethane U 11 U___U 74-83-9-----Bromomethane 11 75-01-4-----Vinyl Chloride 11 ์ บั___ 75-00-3-----Chloroethane 11 75-09-2----Methylene Chloride 3 II 67-64-1-----Acetone 11 75-15-0-----Carbon Disulfide IJĨ 11 75-35-4----1,1-Dichloroethene 11 IJ 75-34-3-----1,1-Dichloroethane 11 11 540-59-0----1,2-Dichloroethene (total) 11 U · 67-66-3-----Chloroform 11 11 107-06-2----1,2-Dichloroethane 11 U 78-93-3----2-Butanone 11 U. 71-55-6----1,1,1-Trichloroethane 11 U 56-23-5-----Carbon Tetrachloride 11 U 75-27-4-----Bromodichloromethane 11 U 78-87-5----1,2-Dichloropropane 11 U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6-----Trichloroethene 11 U 124-48-1----Dibromochloromethane 11 Ū 79-00-5----1,1,2-Trichloroethane 11 U 71-43-2----Benzene 11 10061-02-6----trans-1,3-Dichloropropene 11 П 75-25-2-----Bromoform 11 H 108-10-1----4-Methyl-2-Pentanone 11 591-78-6----2-Hexanone 11 H 127-18-4----Tetrachloroethene U 11 79-34-5----1,1,2,2-Tetrachloroethane 1.1 U 108-88-3-----Toluene 11 U 108-90-7-----Chlorobenzene 11 H 100-41-4----Ethylbenzene 11 11 100-42-5----Styrene 11 11 1330-20-7-----Xylene (total) 11 U

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO
16	5-41-42	

Lab Name: ACCREDITED LABS, INC.	Contract: 15-41-42
Lab Code: 11109 Case No.: 8039	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800394
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >C6564
Level: (low/med) LOW	Date Received: 01/09/98
% Moisture: not dec. 6	Date Analyzed: 01/14/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)

Number TICs found: 1

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER COMPOUND NAME EST. CONC. _____ AND LOCAL COSTS THE LOCAL COSTS THE _____ 8.75 Unknown Hydrocarbon 49 N 2. 3. 4. 7._ 9.__ 10. 11. 12. 13. 14. 15. 17. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28._ 29. 30.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKC84	
VBLKC84	

Lab Name: ACCREDITE	D LABS, INC. Cor	itract:	
		AS No.:SDG	No.:
Matrix: (soil/water) SOIL	Lab Sample ID:	VBLKC84
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>C6551
Lavel: (low/med)	LOW	Date Received:	01/14/98
% Moisture: not dec	. 0	Date Analyzed:	01/14/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	r: 1.0
Soil Extract Volume	:(uL)	Soil Aliquot Vo	olume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	G Q
74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 75-34-3 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-01-6 124-48-1 79-01-6 124-48-1 79-01-6 124-48-1 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 108-88-3 108-90-7 100-41-4 100-42-5	Carbon Disulfide1,1-Dichloroethen1,2-Dichloroethen1,2-DichloroethenChloroform2-ButanoneCarbon TetrachloroethenBromodichlorometh1,2-Dichloropropatis-1,3-DichloropTrichloroetheneDibromochlorometh1,1,2-TrichloroetBromoformBromoformBromoformBromoformBromoform	de ne ne (total) ne chane ne oropene nane chane no copropene no copropene	10

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO
VE	BLKC84	

Lab Name: ACCREDITED	LABS, INC. Contract:	
Lab Code: 11109	Case No.: 8039 LMC. SAS No.:	: SDG No.:
Matrix: (soil/water)	SOIL	Lab Sample ID: VBLKC84
Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >C6551
Level: (low/med)	LOW	Date Received: 01/14/98
% Moisture: not dec.	0	Date Analyzed: 01/14/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
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VOLATILE ORGANICS ANALYSIS DATA SHEET

ATT.		
EPA	SAMPLE	NC

_ Lab Name: ACCREDITED LABS, INC.	VBLKC86 Contract:
Lab Code: 11109 Case No.: 5039 Lyc	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: VBLKC86
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >C6577
Level: (low/med) LOW	Date Received: 01/15/98
% Moisture: not dec. 0	Date Analyzed: 01/15/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	10	U
	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J -
67-64-1		10	U
75-15-0	Carbon Disulfide	10	U
	1,1-Dichloroethene	10	U
	1,1-Dichloroethane	10	U
	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	J
78-87-5	1,2-Dichloropropane	10	U
	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	UU_
124-48-1	Dibromochloromethane	10	
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2		10	U
	trans-1,3-Dichloropropene	10	U
75-25-2		10	U
	4-Methyl-2-Pentanone	10	U
	2-Hexanone	10	U
	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3		10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5		` 10	U
	Xylene (total)	10	

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA"	SAMPLE	NO	
VE	BLKC86		

Lab Name: ACCREDITED	LABS, INC. Con	ntract:	_
Lab Code: 11109	Case No.: 8037 LMC S	AS No.: SDG No.:	•
Matrix: (soil/water)	SOIL	Lab Sample ID: VBLKC86	
Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >C6577	•
Level: (low/med)	LOW	Date Received: 01/15/98	9
% Moisture: not dec.	0	Date Analyzed: 01/15/98	
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor: 1.0	*
Soil Extract Volume:	(uL)	Soil Aliquot Volume:(uL)	
Number TICs found:	1	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	•

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Hydrocarbon	8.80	52	N
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKC87

Lab Name: ACCREDITED LABS, INC. Contract: _		VBERCO /
Lab Code: 11109 Case No.: 6039 UMC SAS No.:	SDG No	·:
	ab Sample ID: V	
	ab File ID: >	·C6595
	ate Received: 0	11/16/00
		•
% Moisture: not dec. 0	ate Analyzed: 0	1/16/98
GC Column: RTX-502 ID: 0.53 (mm) Di	ilution Factor:	1.0
Soil Extract Volume:(uL) Sc	oil Aliquot Vol	ume:(uL)
	RATION UNITS: r ug/Kg) UG/KG	Q
74-87-3		10

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NC .
VE	BLKC87]

			UDINGOR
Lab Name: ACCREDITED	LABS, INC. Cor	tract:	VBLKC87
Lab Code: 11109	Case No.: 8037 LMC SA	S No.: SDG No	·.:
<pre>Matrix: (soil/water)</pre>	SOIL	Lab Sample ID: V	BLKC87
Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >	C6595
Level: (low/med)	LOW	Date Received: 0	1/16/98
% Moisture: not dec.	0	Date Analyzed: 0	1/16/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
Number TICs found:	0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	•

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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12SLUDGE

Lab Name: ACCREDITED LABS, INC. Contract:

■Lab Code: Case No.: 8039 SAS No.: SDG No.:

Matrix: (soil/water) SOIL - Lab Sample ID: 9800386

Sample wt/vol: 30 (g/mL) G Lab File ID: >F4405

Level: (low/med) LOW Date Received: 01/09/98

_% Moisture: 41 decanted: (Y/N) N Date Extracted: 01/12/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/14/98

__Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATI	ON UNITS: /Kg) UG/KG	Q
541-73-1 106-46-7 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 67-72-1 98-95-3 78-59-1 88-75-5 105-67-9 111-91-1 120-83-2 120-82-1 91-20-3 106-47-8 87-68-3 59-50-7 91-57-6 77-47-4 88-06-2 95-95-4 91-58-7 88-74-4 131-11-3 208-96-8 606-20-2	bis(2-Chloroeth2-Chlorophenol1,3-Dichloroben1,4-Dichloroben1,2-Dichloroben2,2'-oxybis(1-C4-MethylphenolN-Nitroso-di-nHexachloroethanNitrobenzeneIsophorone2,4-Dimethylphenol2,4-Dimethylphe1,2,4-TrichloroNaphthalene4-ChloroanilineHexachlorobutad4-Chloro-3-meth2-MethylnaphthaHexachlorocyclo2,4,5-Trichloro2,4,5-Trichloro2,4,5-Trichloro2,4,5-Trichloro2,1,5-Trich	zene_zene_zene_zene_zene_hloropropane) propylamine_e nol_oxy)methane_nol_benzene iene_ylphenol_lene_pentadiene_phenol_phenol_phenol_lene_tene_zene	5600 5600 55600 55600 55600 556600 556600 55600 55600 1400 1400 1400 1400 1400 1400	

FORM I SV-1

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA *SAMPLE NO.

12SLUDGE

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 8039 SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

(g/mL) G 30

Lab Sample ID: 9800386

Sample wt/vol:

Lab File ID:

>F4405

Level: (low/med) LOW

41

decanted: (Y/N) N Date Extracted:

Date Received: 01/09/98

% Moisture:

Concentrated Extract Volume: 500 (uL)

Date Analyzed:

01/12/98 01/14/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N)Y

pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND Q 51-28-5----2,4-Dinitrophenol_____ 100-02-7-----4-Nitrophenol____ 1400 U 1400 2400 U 132-64-9----Dibenzofuran 121-14-2-----2, 4-Dinitrotoluene 84-66-2-----Diethylphthalate 7005-72-3-----4-Chlorophenyl-phenylether 86-73-7------Fluorene 560 U 560 Ù. 560 Ù. 4100 100-01-6-----4-Nitroaniline 534-52-1-----4,6-Dinitro-2-methylphenol 1400 U 1400 560 Ή 560 560 П 87-86-5----Pentachlorophenol 1400 85-01-8-----Phenanthrene_ 120-12-7-----Anthracene___ 22000 E 5600 \mathbf{E} 86-74-8------Carbazole 84-74-2------Di-n-butyIphthalate_ 206-44-0------Fluoranthene 560 U 1900 13000 E 25000 \mathbf{E} 16000 E U 560 11000 Ε 9900 E 18000 E 1700 8300 E 5800 7300 9700 E E E 5200 E 7800 E

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

12SLUDGE

Lab Name: ACCREDITED LABS, INC.

Contract:

Lab Code:

Case No.: 8039

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID:

9800386

Sample wt/vol:

(g/mL) G

Lab File ID:

>F4405

(low/med) Level:

LOW

Date Received:

01/09/98

№ Moisture:

decanted: (Y/N) N

Date Extracted: 01/12/98

Concentrated Extract Volume:

41

500 (uL)

Date Analyzed:

01/14/98

__Ir.jection Volume:

(uL) 2.0

Dilution Factor: 1.0

GFC Cleanup:

(Y/N) Y

pH:

Number TICs found:

15

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

			 	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 573988 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27	Unknown Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Aromatic Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Naphthalene, 1,2-dimethyl- Unknown Hydrocarbon	5.41 7.21 8.06 8.45 9.49 10.27 11.86 12.66 13.74 14.83 16.06 19.47	## CONC. ## 3600 2400 3100 4200 5300 4500 3600 2500 1400 1300 1200 1900 1400 1500	Q = = = N N N N N N N N N N N N N N N N
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FORM I SV-TIC

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLUDGEDL

Lab Name: ACCREDITED LABS, INC.

Contract:

Lab Code:

Case No.: 8039

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID:

9800386DL

Sample wt/vol:

30

(g/mL) G

Lab File ID:

>F4417

Level: (low/med)

LOW

COMPOUND

Date Received:

01/09/98

% Moisture:

41

decanted: (Y/N) N

Date Extracted:

01/12/98

Concentrated Extract Volume:

500 (uL)

Date Analyzed:

01/16/98

Injection Volume:

CAS NO.

2.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y

pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

FORM I SV-1

EPA SAMPLE NO.

SLUDGEDL

Lab Name: ACCREDITED LABS, INC. Contract:

a y ooo and m

■Lab Code: Case No.: 8039 SAS No.: SDG No.:

Matrix: (soil/water) SOIL . Lab Sample ID: 9800386DL ... Sample wt/vol: 30 (g/mL) G Lab File ID: >F4417

Sample wt/vol: 30 (g/mL) G Lab File ID: >F4417
Level: (low/med) LOW Date Received: 01/09/98

% Moisture: 41 decanted: (Y/N) N Date Extracted: 01/12/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/16/98

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRA (ug/L or		Q
132-64-9	4-Nitroanilin4,6-Dinitro-2N-Nitrosodiph4-BromophenylHexachlorobenPentachlorophAnthraceneCarbazoleDi-n-butyIphtFluoranthenePyreneButylbenzyIph3,3'-Dichloro	luene ate l-phenylether e -methylpheno enylamine (1) -phenylether zene enol halate thalate benzidine acene xyl)phthalate halate anthene anthene e cd)pyrene thracene	14000 14000 3100 5600 5600 7400 14000 14000 5600 5600 14000 2200 27000 34000 22000 27000 15000 15000 25300 20000 15000 1	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

13SLUDGE

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code:

Case No.: 8039

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

30

Lab Sample ID:

9800387

Sample wt/vol:

(g/mL) G

Lab File ID: Date Received: >F4406

Level: (low/med)

LOW

500 (uL)

Date Extracted:

01/09/98 01/12/98

% Moisture:

64 Concentrated Extract Volume:

decanted: (Y/N) N

Date Analyzed:

01/14/98

Injection Volume:

CAS NO.

2.0 (uL)

COMPOUND

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) Y

pH:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q.

		(49/2 01 49/149	,, 00,110	×
95-57-8 541-73-1 106-46-7 95-50-1 95-48-7 108-60-1 106-44-5 621-64-7 98-95-3 105-67-9 111-91-1 120-83-2 120-82-1 120-82-1 91-20-3 120-82-1 91-57-6 91-57-6 91-57-6 91-57-6 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-58-7 91-59-4 91-59-4 91-59-4 91-59-4 91-59-4 91-59-4 91-59-4 91-59-4 91-59-4 91-59-4 91-59-4	Phenolbis(2-Chloroethy)2-Chlorophenol1,3-Dichlorobenze1,4-Dichlorobenze1,2-Dichlorobenze2-Methylphenol2,2'-oxybis(1-ChlorophenolNitroso-di-n-pre	ene_ene_ene_ene_ene_ene_ene_ene_ene_ene	930 9330 9330 9330 9330 9333 9333 9330 9300 900 9	

FORM I SV-1

EPA SAMPLE NO.

13SLUDGE

>F4406

Contract: Lab Name: ACCREDITED LABS, INC.

30

Lab Code:

SAS No.: SDG No.: Case No.: 8039

Lab

File ID:

Matrix: (soil/water) SOIL Lab Sample ID: 9800387

Level: (low/med) LOW Date Received: 01/09/98

decanted: (Y/N) N Date Extracted: 01/12/98 **₩** Moisture: 64

Date Analyzed: Concentrated Extract Volume: 500 (uL) 01/14/98

_Injection Volume: Dilution Factor: 1.0 2.0 (uL)

(q/mL) G

GPC Cleanup: (Y/N) YpH:

Sample wt/vol:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG CAS NO. COMPOUND Q

S1-28-5			
100-02-7-	51-28-52 4-Dinitrophenol	2300	11
132-64-9	100-02-74-Nitrophenol		
121-14-2 2,4-Dinitrotoluene 930 U 84-66-2 Diethylphthalate 930 U 7005-72-3 4-Chlorophenyl-phenylether 930 U 86-73-7 Fluorene 6900 U 100-01-6 4-Nitroaniline 2300 U 534-52-1 4,6-Dinitro-2-methylphenol 2300 U 86-30-6 N-Nitrosodiphenylamine (1) 930 U 101-55-3 4-Bromophenyl-phenylether 930 U 118-74-1 Hexachlorobenzene 930 U 85-01-8 Phenanthrene 38000 E 120-12-7 Anthracene 8700 E 86-74-8 -Carbazole 930 U 84-74-2 Di-n-butyIphthalate 1600 E 129-00-0 -Pyrene 42000 E 85-68-7 -ButylbenzyIphthalate 14000 E 117-84-0 -Di-n-octylphthalate 17000 E 218-01-9 -Chrysene 17000 E 117-84-0 -Di-n-octylphthalate 1800 E	132-64-9		
100-01-64-Nitroaniline	121-14-22 4-Dinitrotoluene		
100-01-64-Nitroaniline	84-66-2Diethylphthalate		
100-01-64-Nitroaniline	7005-72-34-Chlorophenyl-phenylether		
100-01-6	86-73-7Fluorene		
534-52-14,6-Dinitro-2-methylphenol 2300 U 86-30-6N-Nitrosodiphenylamine (1) 930 U 101-55-34-Bromophenyl-phenylether 930 U 118-74-1			
86-30-6N-Nitrosodiphenylamine (1) 930 U 101-55-3			
101-55-3	86-30-6N-Nitrosodiphenylamine (1)		
118-74-1	101-55-34-Bromophenyl-phenylether		
87-86-5 —Pentachlorophenol 2300 U 85-01-8 —Phenanthrene 38000 E 120-12-7 —Anthracene 8700 E 86-74-8 —Carbazole 930 U 84-74-2 —Di-n-butyIphthalate 1600 E 206-44-0 —Fluoranthene 23000 E 129-00-0 —Pyrene 42000 E 85-68-7 —ButylbenzyIphthalate 14000 E 91-94-1 —3,3'-Dichlorobenzidine 930 U 56-55-3 —Benzo(a)anthracene 20000 E 218-01-9 —Chrysene 17000 E 117-81-7 —bis(2-Ethylhexyl)phthalate 20000 E 205-99-2 —Benzo(b)fluoranthene 14000 E 207-08-9 —Benzo(k)fluoranthene 13000 E 50-32-8 —Benzo(a)pyrene 14000 E 193-39-5 —Indeno(1,2,3-cd)pyrene 16000 E 53-70-3 —Dibenz(a,h)anthracene 9100 E	118-74-1Heyachlorobenzene		
85-01-8 Phenanthrene 38000 E 120-12-7 Anthracene 8700 E 86-74-8			
120-12-7	85-01-8Phenanthrene		
86-74-8 Carbazole 930 U 84-74-2 Di-n-butyIphthalate 1600 U 206-44-0 Fluoranthene 23000 E 129-00-0 Pyrene 42000 E 85-68-7 ButylbenzyIphthalate 14000 E 91-94-1 3,3'-Dichlorobenzidine 930 U 56-55-3 Benzo(a)anthracene 20000 E 218-01-9 Chrysene 17000 E 117-81-7 bis(2-Ethylhexyl)phthalate 20000 E 117-84-0 Di-n-octylphthalate 1800 E 205-99-2 Benzo(b)fluoranthene 14000 E 207-08-9 Benzo(k)fluoranthene 13000 E 50-32-8 Benzo(k)fluoranthene 14000 E 193-39-5 Indeno(1,2,3-cd)pyrene 16000 E 53-70-3 Dibenz(a,h)anthracene 9100 E		7 2 7 2 7 1	
84-74-2			
206-44-0			
129-00-0 -Pyrene 42000 E 85-68-7 -Butylbenzylphthalate 14000 E 91-94-1 -3,3'-Dichlorobenzidine 930 U 56-55-3 -Benzo(a)anthracene 20000 E 218-01-9 -Chrysene 17000 E 117-81-7 -bis(2-Ethylhexyl)phthalate 20000 E 117-84-0 -Di-n-octylphthalate 1800 - 205-99-2 -Benzo(b)fluoranthene 14000 E 207-08-9 -Benzo(k)fluoranthene 13000 E 50-32-8 -Benzo(a)pyrene 14000 E 193-39-5 -Indeno(1,2,3-cd)pyrene 16000 E 53-70-3 -Dibenz(a,h)anthracene 9100 E			F:
85-68-7 Butylbenzylphthalate 14000 E 91-94-1 3,3'-Dichlorobenzidine 930 U 56-55-3 Benzo(a)anthracene 20000 E 218-01-9 Chrysene 17000 E 117-81-7 bis(2-Ethylhexyl)phthalate 20000 E 117-84-0 Di-n-octylphthalate 1800 205-99-2 Benzo(b)fluoranthene 14000 E 207-08-9 Benzo(k)fluoranthene 13000 E 50-32-8 Benzo(a)pyrene 14000 E 193-39-5 Indeno(1,2,3-cd)pyrene 16000 E 53-70-3 Dibenz(a,h)anthracene 9100 E			
91-94-1	85-68-7		
56-55-3Benzo(a)anthracene 20000 E 218-01-9	91-94-13.3'-Dichlorobenzidine		
218-01-9	56-55-3Benzo(a)anthracene		
117-81-7bis(2-Ethylhexyl)phthalate 20000 E 117-84-0			
117-84-0	117-81-7bis(2-Ethylhexyl)phthalate	11777	
205-99-2Benzo(b)fluoranthene 14000 E 207-08-9Benzo(k)fluoranthene 13000 E 50-32-8Benzo(a)pyrene 14000 E 193-39-5Indeno(1,2,3-cd)pyrene 16000 E 53-70-3Dibenz(a,h)anthracene 9100 E	117-84-0Di-n-octvlphthalate		
207-08-9Benzo(k)fluoranthene 13000 E 50-32-8Benzo(a)pyrene 14000 E 193-39-5Indeno(1,2,3-cd)pyrene 16000 E 53-70-3Dibenz(a,h)anthracene 9100 E	205-99-2Benzo(b)fluoranthene	14000	E
50-32-8Benzo(a)pyrene 14000 E 193-39-5Indeno(1,2,3-cd)pyrene 16000 E 53-70-3Dibenz(a,h)anthracene 9100 E	207-08-9Benzo(k)fluoranthene	13000	_E
193-39-5Indeno(1,2,3-cd)pyrene 16000 E 53-70-3Dibenz(a,h)anthracene 9100 E		14000	_E
53-70-3Dibenz(a,h)anthracene 9100 E	193-39-5Indeno(1,2,3-cd)pyrene	16000	
191-24-2Benzo(g,h,i)perylene 12000E	53-70-3Dibenz(a,h)anthracene	9100	
	191-24-2Benzo(g,h,i)perylene	12000	E

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

Lab Name: ACCREDITED LABS, INC. Contract:

SLUDGEDL

Lab Code: Case No.: 8039 SAS No.: SDG No.:

Matrix: (soil/water) SOIL . Lab Sample ID: 9800387DL

Sample wt/vol: 31 (g/mL) G Lab File ID: >F4418

Level: (low/med) LOW Date Received: 01/09/98

% Moisture: 64 decanted: (Y/N) N Date Extracted: 01/12/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 01/16/98

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5
117-84-0

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

-Lab Name: ACCREDITED LABS, INC. Contra	ct:	FB
Lab Code: Case No.: 8039 SAS No.	•).:
Matrix: (soil/water) WATER .		
Sample wt/vol: 1000 (g/mL) ML		
Level: (low/med) LOW	Date Received:	01/09/98
% Moisture: decanted: (Y/N) N	Date Extracted:	01/12/98
Concentrated Extract Volume: 1000 (uL)	Date Analyzed:	01/14/98
Injection Volume: 2.0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N) N pH:		
CAS NO. COMPOUND (ug,	CENTRATION UNITS: /L or ug/Kg) UG/L	Q
108-95-2	propane) lamine thane nol nol liene	

FORM I SV-1

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCREDITED	LABS, INC.	Contract:	_	FB
Lab Code:	Case No.: 8039	SAS No.:	SDG No	.:
Matrix: (soil/water)	WATER	· Lab	Sample ID:	9800388
Sample wt/vol: 100	00 (g/mL) ML	Lab	File ID:	>F4401
Level: (low/med)	LOW	Date	e Received:	01/09/98
% Moisture:	decanted: (Y/N) N	Date	e Extracted:	01/12/98
Concentrated Extract	Volume: 1000 (u	L) Date	e Analyzed:	01/14/98
Injection Volume:	2.0 (uL)	Dilu	ition Factor:	1.0

CONCENTRATION UNITS:

pH:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 51-28-5----2,4-Dinitrophenol_ 100-02-7----4-Nitrophenol_ 132-64-9-----Dibenzofuran_ 25 25 10 U Ū U 121-14-2----2,4-Dinitrotoluene 84-66-2-----Diethylphthalate 7005-72-3-----4-Chlorophenyl-phenylether 86-73-7------Fluorene 10 U 10 U 10 U 10 IJ 100-01-6-25 25 ----4-Nitroaniline IJ 534-52-1-----4,6-Dinitro-2-methylphenol 86-30-6----N-Nitrosodiphenylamine (1) 101-55-3-----4-Bromophenyl-phenylether_ 118-74-1------Hexachlorobenzene 87-86-5----------Pentachlorophenol U 1 Õ U 10 Ù 10 25 U 85-01-8----Phenanthrene 10 U 120-12-7-----Anthracene 10 U 10 IJ 10 U 10 U 129-00-0--Pyrene 10 U ----Butylbenzylphthalate ----3,3'-Dichlorobenzidine ----Benzo(a)anthracene 85-68-7--10 U 91-94-1--56-55-3--10 U 10 10 IJ 10 IJ Ù 10 10 U U 10 IJ 10 U 10 U 191-24-2----Benzo(g,h,i)perylene 10

(1) - Cannot be separated from Diphenylamine

GPC Cleanup: (Y/N) N

FORM I SV-2

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ACCREDITED LABS, INC.

- Contract:

 \mathbf{FB}

■Lab Code:

SAS No.: Case No.: 8039

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID:

9800388

■Sample wt/vol: 1000

(g/mL) ML

Lab File ID:

>F4401

Level: (low/med) LOW

Date Received:

01/09/98

% Moisture: _____

decanted: (Y/N) N

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/14/98

Date Extracted: 01/12/98

_Injection Volume:

2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N)N

pH:

Number TICs found:

0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		=======		====
1		_		
Z- i				
3.4.				Ì
5.		-		
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<i>1</i> • 1				
8.				
		_		
10				
-		-		
13				
13.				
14.				
		_		
1/-				
17.				
2U. I				
<i>C. Z.</i> = 1				
23.		-		
24.				
/h .		_		
2.1.				
28.		-		
28				
30				

FORM I SV-TIC

SEMINOLATIONS ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: SBLK79
Sample wt/vol: 1000 (g/mL) ML Lab File ID: >F4399

Level: (low/med) LOW Date Received:

% Moisture: decanted: (Y/N) N Date Extracted: 01/12/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/14/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

	i	
108-95-2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	

FORM I SV-1

OLM03.0

59

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ACCREDITED LABS, INC. Contract:

■Lab Code: Case No.: SAS No.: SDG No.:

-Matrix: (soil/water) WATER . Lab Sample ID: SBLK79

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >F4399

Level: (low/med) LOW Date Received:

_at Moisture: _____ decanted: (Y/N) N Date Extracted: 01/12/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/14/98

_Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/kg) UG/L $\mathbb Q$

	 	+
51-28-52,4-Dinitrophenol_	25	υ
100-02-74-Nitrophenol	25	U_
132-64-9Dibenzofuran	l 10	ŭ
121-14-22.4-Dinitrotoluene	l iŏ	ŭ
84-66-2Diethylphthalate	10	—й—
121-14-22,4-Dinitrotoluene 84-66-2Diethylphthalate 7005-72-34-Chlorophenyl-phenylether	l iŏ	ŭ
86-73-7Fluorene	l iŏ	-ŭ
100-01-64-Nitroaniline	25	<u>u</u>
534-52-14,6-Dinitro-2-methylphenol	25	u
86-30-6———N-Nitrosodiphenylamine (1)	10	ŭ
101-55-34-Bromophenyl-phenylether	10	ü
118-74-1Hexachlorobenzene	10	
87-86-5Pentachlorophenol	25	_U
85-01-8Phenanthrene	10	I I
120-12-7Anthracene	10	U
86-74-8Carbazole	I : I	U
00-74-0Calbazole	10	U
84-74-2Di-n-butyIphthalate	10	U
206-44-0Fluoranthene	10	U
129-00-0Pyrene	10	U
85-68-7Butylbenzylphthalate	10	UU
91-94-13,3'-Dichlorobenzidine 56-55-3Benzo(a)anthracene_	10	U
56-55-3Benzo(a)anthracene	10	U
218-01-9Chrysene	10	U
117-81-7bis(2-Ethylhexyl)phthalate	10	U
117-84-0Di-n-octylphthalate	10	U
205-99-2Benzo(b)fluoranthene	10	U
207-08-9Benzo(k)fluoranthene	10	U
50-32-8Benzo(a)pyrene	10	UU
193-39-5Indeno(1,2,3-cd)pyrene	10	UU
53-70-3Dibenz(a,h)anthracene	10	U
191-24-2Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK79	
--------	--

Lab	Name:	ACCREDITED	LABS,	INC.
-----	-------	------------	-------	------

Contract:

Lab	Code	•
LICLE	COGE	

Case No.:

SAS No.:

SDG No.:

SBLK79

Matrix: (soil/water) WATER

% Moisture: decanted: (Y/N) N

Lab Sample ID: Lab File ID:

Sample wt/vol:

1000

(g/mL) ML

>F4399

Level: (low/med) LOW

Date Received:

Date Extracted: 01/12/98

Concentrated Extract Volume:

1000 (uL)

Date Analyzed: 01/14/98

Injection Volume:

2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) N

pH:

Number TICs found:

0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT ======	EST. CONC.	Q =====
2:				
4				
8. 9. 10.				
11. 12. 13.				
14				
18.				
21. 22. 23.				
24. 25. 26. 27.				
28. 29. 30.				

FORM I SV-TIC

EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC. Contract:

■Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: SBLK80

Sample wt/vol: 30 (g/mL) G Lab File ID: > F4461

Level: (low/med) LOW Date Received: 01/12/98

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/12/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/11/98

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRA (ug/L or		Q
95-57-8	bis(2-Chloroe2-Chloropheno1,3-Dichlorobe1,4-Dichlorobe1,2-Dichlorobe2,2'-oxybis(14-MethylphenoN-Nitroso-diHexachloroethe	enzene en	33300 33300 33300 33300 333300 33333333	

1C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK80

Lab Name: ACCREDITED LABS, INC.

Contract:

Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL

LOW

Lab Sample ID: SBLK80

Sample wt/vol: 30

(g/mL) G

Lab File ID:

>F4461

Level: (low/med)

decanted: (Y/N) N

Date Received: Date Extracted: 01/12/98 01/12/98

% Moisture:

Lab Code:

0

Concentrated Extract Volume: 500 (uL)

Date Analyzed:

CONCENTRATION UNITS:

02/11/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y

pH:

(ug/L or ug/Kg) UG/KG CAS NO. COMPOUND Q 51-28-5----2,4-Dinitrophenol______100-02-7-----4-Nitrophenol_____ U U U Ù U

84-74-2----Di-n-butyIphthalate

IJ Ū IJ

Ū U

ΊJ

50-32-8-----Benzo(a)pyrene 193-39-5-----Indeno(1,2,3-cd)pyrene 53-70-3------Dibenz(a,h)anthracene

191-24-2----Benzo(g,h,i)perylene_

U IJ IJ U 330 330 Ū

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EFA	SAMPLE	NO.
LEA	OBUILD	14()
	~~~~	-10.

SBLK80

Lab Name: ACCREDITED LABS, INC.

Contract:

Lab Code:

Level:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab File ID:

SBLK80 >F4461

Sample wt/vol:

30 LOW (g/mL) G

Lab Sample ID:

01/12/98

≥% Moisture:

(low/med)

decanted: (Y/N) N

Date Received: Date Extracted: 01/12/98

Concentrated Extract Volume:

0

500 (uL)

Date Analyzed: 02/11/98

_Injection Volume:

2.0 (uL)

1

Dilution Factor: 1.0

GPC Cleanup:

(Y/N) Y

pH:

Number TICs found:

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAC MUMPED	COMPOUND WINE	DIII	EGE GOVG	
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q =====
	1:	Unknown	3.24	2800	N
	3				
	3. 4.				
	5.				
	6 7				
_	10				
4	12.				
`	14:				
	15.				
	16.				
-	17. 18.				
	19.				
	20.				
_	44.				
1	23				
	25.	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
	25. 26. 27. 28. 29.				
	28:				
.	29.				
	30				
1	-				

FORM I SV-TIC

### 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCR	EDITED_LABS	_INC	Contract: _			13 SLUD	GE
Lab Code:	Cas	se No.: 80	39 'SAS No.	: _	MARCH 18 18 18 18 18 18 18 18 18 18 18 18 18	SDG No.:	8039
Matrix (soil/w	ater): SOIL	_		La	ab Sampl	e ID: 9800	387
Level (low/med): LOW Date Received: 01/09/98							
% Solids:	_35.8	3					
Con	ncentration	Units (ug	/L or mg/kg dry	, r	weight):	MG/KG	
	7429-90-5 7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-70-2	Analyte  Aluminum_ Antimony_ Arsenic_ Barium_ Beryllium Cadmium_ Calcium_ Chromium	Concentration  3280 5.3 4.2 316 0.13 9.6 8650 54.5	- Ū - B	EN*		

7440-48-4

7440-50-8

7439-89-6

7439-92-1

7439-95-4

7439-96-5

7439-97-6

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

7440-62-2

7440-66-6

Cobalt

Iron

Lead

Copper

Magnesium

Manganese

Potassium

Selenium

Thallium

Vanadium

Cyanide

Mercury

Nickel

Silver

Sodium

Zinc

5.2 B

232

9060

1120

4100

66.0

0.05

35.2

281 B

211 B

0.27 U

0.39 U

5.8

27.3

815

0.12 B

P

 $\mathbf{P}^{-}$ 

P_

 $\mathbf{F}$ 

 $P^{-}$ 

 $\mathbf{P}^{-}$ 

 $C\overline{V}$ 

P

 $P^{-}$ 

 $\mathbf{F}^{-}$ 

 $\mathbf{p}^{-}$ 

 $P^{-}$ 

 $\mathbf{F}^{-}$ 

 $P^{-}$ 

P C

N

EN*

N

E

EN*

N

N*

N*

N

EN*

E*

Color Before: BLACK____ Clarity Before: OPAQUE Texture: MEDIUM

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Con	ments:	97

### U.S. EPA - CLP

### INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

<b>♥</b> .ab Name: ACCI	REDITED LABS	INC.	Contract: _		FIELD BLANK
ab Code:					SDG No.: 8039_
Matrix (soil/v	water): WATE	R		Lab Sam	ple ID: 9800388
_evel (low/med	ceived: 01/09/98				
% Solids:	0.	0			
	***************************************		/L or mg/kg dry	y weight	): UG/L_
•	CAS No.	Analyte	Concentration	C Q	М
	7429-90-5	Aluminum	34.5	<u>U</u> E*	P
	7440-36-0	Antimony	27.1	U _ N _	- P-
	7440-38-2	Arsenic	2.3	ט	_ F
	7440-39-3	Barium	0.80	· - —	_  P_
	7440-41-7	Beryllium	0.20		P_
	7440-43-9	Cadmium	3.9		P_
	7440-70-2	Calcium_	322		P_
	7440-47-3	Chromium_	7.1		P_
-	7440-48-4	Cobalt	6.4		P_
•	7440-50-8	Copper	5.6		P_
	7439-89-6	Iron	238	E*	P_
	7439-92-1	Lead	1.0		[ F_
•	7439-95-4	Magnesium	31.3		P_
	7439-96-5	Manganese	1.0		P_
	7439-97-6	Mercury	0.20		CV
•	7440-02-0	Nickel	7.3		P_
	7440-09-7	Potassium	947	· · · · · · · · · · · · · · · · · · ·	P_
	7782-49-2	Selenium_	2.0		F_
	7440-22-4	Silver	7.6		P_
	7440-23-5	Sodium	288		P_
	7440-28-0	Thallium_	1.4		F_
	7440-62-2	Vanadium_	5.8		_ P
•	7440-66-6	Zinc	9.2		-   P
		Cyanide	0.80	U	_   C_
Color Before:		Clarit	y Before:		Texture:
Color After:	***************************************	Clarit	y After:	- Managagana	Artifacts:
Comments:					· %

#### U.S. EPA - CLP

## 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

						ı —	
Lab Name: ACCR	EDITED_LABS	_INC	Contract: _	_	_		14 (15-16)
Lab Code:	Ca	se No.: 80	39 'SAS No.	: _		S	DG No.: 8039
Matrix (soil/wa	ater): SOIL	<del>-</del>		La	ab Samp	le	ID: 98003 <b>89</b>
Level (low/med	): LOW_	_		Da	ate Rece	eiv.	ed: 01/09/ <b>98</b>
% Solids:	_85.	3					
Coi	ncentration	Units (ug	/L or mg/kg dry	γV	weight):	. M	G/KG
	CAS No.	Analyte	Concentration	С	Q	M	
	7429-90-5	Aluminum	7170	-		${P}$	
	7440-36-0	Antimony	6.2		N	P-	
	7440-38-2	Arsenic	0.54		—"—	F ⁻	
	7440-39-3	Barium —	33.2		EN*	P	
		Beryllium			– _N –	$_{ m P}^{-}$	
	7440-43-9	Cadmium	1.6		N*	P_	
	7440-70-2	Calcium	6900	_	E*	P	
	7440-47-3	Chromium_	16.2		N	P_	
	7440-48-4	Cobalt			N	P	
	7440-50-8	Copper	138		EN*	Р_	

7439-89-6

7439-92-1

7439-95-4

7439-96-5

7439-97-6

7440-02-0

7440-09-7

7782-49-2

7440-22-4

7440-23-5

7440-28-0

7440-62-2

7440-66-6

Iron

Lead

Magnesium

Manganese

Mercury_

Potassium

Selenium

Thallium

Vanadium

Nickel

Silver

Sodium

Zinc_ Cyanide

Color Before: BROWN ____ Clarity Before: OPAQUE Texture: MEDIUM

9810

1020 B

14.1

61.7

0.25

14.6

266 B

0.47 U

Ō.33|U

0.02 | U

13.5

90.4

3.8 198 B P

F_

P_ P

 $C\overline{V}$ 

P_

 $\mathbf{P}^{-}$ 

F

P⁻

 $P^{-}$ 

F_

 $P^{-}$ 

P_

C

E*

SN

Ε

EN*

N

N*

N *

N

EN*

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Com	ments:			•	99	
		_				

# 1 TNORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

•		INORGANIC	ANALYSES DATA	SH	EET	,	
<b>w</b> iab Name: ACCI	REDITED_LABS	_INC	Contract: _			15(1	1-12)
ab Code:	Ca	se No.: 80	39 SAS No.	: _		SDG No	.: 8039
Matrix (soil/w	water): SOIL			La	ab Samp	le ID: 9	800392
Level (low/med	l): LOW_	_		Da	ate Rec	eived: 0	1/09/98
% Solids:	_98.	3					
<b></b> Co	ncentration	Units (ug	/L or mg/kg dry	/ V	weight)	: MG/KG	
<b>14</b>	CAS No.	Analyte	Concentration	С	Q	М	
	7429-90-5	Aluminum	1320	-	E*	P	
	7440-36-0	Antimony	5.4	Ū	N	P	
<b>\</b>	7440-38-2	Arsenic	0.45			F	
	7440-39-3	Barium	5.3		EN*	P	
	7440-41-7			,	_ N	P	
	7440-43-9	Cadmium	0.80	В	N*	P	
	7440-70-2	Calcium	417	В	*	P	
	7440-47-3	Chromium	3.9		N	P_	
	7440-48-4	Cobalt	1.3	Ū	N	P	
₩	7440-50-8	Copper	4.5	В	EN*	P	
	7439-89-6	Iron	2650		E*	P	
	7439-92-1	Lead	1.8		N	F	
*	7439-95-4	Magnesium	329	$\overline{B}$	E	P	
	7439-96-5	Manganese	57.4		EN*	P	
	7439-97-6	Mercury	0.10	Ū	_ N	CV	
•	7440-02-0	Nickel	1.5	U	N*	P	
•	7440-09-7	Potassium	189	U		P	
	7782-49-2	Selenium_	0.40	U		F	
·	7440-22-4	Silver	1.5		N*	P	
	7440-23-5		151		*	P_	
	7440-28-0	Thallium_	0.28			F_	
	7440-62-2	Vanadium_	2.5	В	N	P_	
•	7440-66-6	Zinc	13.8	_[	_EN*	P_	
		Cyanide	0.02	В		C_	
Color Before:	BROWN	Clarit	cy Before: OPAQ	UE		Texture	: MEDIUN
Color After:	COLORLESS	Clarit	ty After: CLEA	R_		Artifact	::
Comments:						· 100	



### ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

Analytical Data Report

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

FEB 1 8 1998

LMS
One Blue Hill Plaza
Pearl River, NY 10965

for

For Hazardous Waste Section

Project: LAKA RI

Accredited Laboratories Case No.: 8050 Date Received: 01/12/98

Field ID	Laboratory Sample #
16(18-19)	9800412
16(7-8)	9800413
19(4-6)	9800414
19 (13-14)	9800415
17(3-4)	9800416
19(22-24)	9800417
18 (9-10)	9800418
18(23-24)	9800419
17(21-22)	9800420

Accredited Laboratories, Inc. NEw York Certification Number 11109. This data has been reviewed and accepted by:

Yun-shen Lee, Ph.D. 7

(732) 541-2025

### To be included with all lab data and with each workplan

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## SAMPLE IDENTIFICATION AND ALICASE#8050 ANALYTICAL REQUIREMENT SUMMARY

Sample Code	Customer	Laboratory				equiremer		
Method   Method   # # #   Cyanide	Sample	Sample		1	1		*Metals	*Other
######################################	Code	Code	GC/MS	GC/MS	GC	PCBs		
R6P-16 (13-19) 9800 412 CLP  F1GP-K(7-8) 9800 413 CLP  F1GP-19 (4-6) 7800 414 CLP  F1GP-19 (13-19) 9800 415 CLP  F1GP-19 (13-19) 9800 416 CLP  F1GP-18 (13-19) 9800 417 CLP  F1GP-18 (13-19) 9800 418 CLP  F1GP-18 (23-14) 9800 419 CLP  ELGP-17 (11-12) 9800 420 CLP  CLP CLP			Method	Method	Method		•	l. ,,
FIGP-R(7-8) 9800 4/3 CIP FIGP-19(4-6) 9800 4/4 CIP FIGP-19(13-14) 9800 4/5 CIP FIGP-19(12-24) 9800 4/6 CIP FIGP-18(13-14) 9800 4/8 CIP FIGP-18(13-14) 9800 4/9 CIP FIGP-18(23.24) 9800 4/9 CIP FIGP-17(11-12) 9800 4/20 CIP CIP CIP			#	#	#	#		cyanile
FIGP-A(7-8) 9800 4/3 CIP FIGP-19(4-6) 7800 4/4 CIP FIGP-19(12-19) 9800 4/5 CIP FIGP-19(12-19) 9800 4/1 CIP FIGP-18(12-19) 9800 4/1 CIP FIGP-18(23-19) 9800 4/1 CIP FIGP-18(12-11) 9800 4/1 CIP FIGP-17(11-12) 9800 4/2 CIP CIP CIP	R6P-16 (18-19)	9800 412	CLP					
FLGP-19(12-14) 9800 4/5 CLP  PLG P-17(12-14) 9800 4/5 CLP  FLGP-18(1-12) 9800 4/17 CLP  FLGP-18(23.14) 9800 4/19 CLP  FLGP-17(11-12) 9800 4/20 CLP  CLP CLP	FLGP-16(7-8)	9800 413						
PIGP-19(22-29) 9800 417 CLI  FIGP-18(9-19) 9800 418 CLP  FIGP-18(23-14) 9800 419 CLP  ELGP-17(11-12) 9800 420 CLP  CLP CLP	FLGP-19 (4-6)	9800 414						
FLGP-18(9-10) G800 418 CLP  FLGP-18(13-14) G800 418 CLP  FLGP-18(23-14) G800 420 CLP  CLP CLP	FLGD-19(13-14	9800 415	clf_	_				
FLGP-18(9-10) G800 418 CLP  FLGP-18(13-14) G800 418 CLP  FLGP-18(23-14) G800 420 CLP  CLP CLP	FLG P17 (3-4)	9800 416	CLP					
FIGP-18(9-19) 9800 418 CLP  FIGP-18(23.24) 9800 420 CLP  CLP CLP	FLGP-19(22-29)	9800 417						
ELGP-17(11-11) 9800 420 CLP CLP	F-LGP-18(9-10)	9800 418	CLP					
ELGP-17(11-11) 9800 420 CLP CLP	FLGP-18 (23.2)	1) 9800 419	CLP					
		9800420	CLP				CLP	CLP
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B-200 10/95

### **NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

# SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) , ALI CAS ANALYSES

ALI CASE # 8050

Laboratory		Date	Date Rec'd	, Date	Date
Sample ID	Matrix	Collected	at Lab	Extracted	Analyzed
9800412	soil	1/09/18	1/12/98		1/15/98.
9800413	poil	1/09/98	1/12/98		1/16/98
9800414	evil	1/09/98	1/12/98		1/15/98
9800415	poil	1/09/95	1/12/98		1/15/98
9800416	wil	1/09/98	1/12/98		1/16/98
9800417	soil	1/09/98	1/12/98		1/16/98
9800418	poil	1/09/98	1/12/98		116/98
9800419	pail	1/09/98	1/12/98		1/16/98
9800420	poil	1/01/98	1/2/98	•	1/16/18
`		,			
-					
L					

B-202 10/95

### **NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

# SAMPLE PREPARATION AND ANALYSIS SUMMARY #1 CASE #8050 INORGANIC ANALYSES

Laboratory		Madala Danisada	Date Rec'd	Date
Sample ID	Matrix	Metals Requested	at Lab	Analyzed
9800420	poil	TAL eyanide	1/12/98	1/29/98
9800 420	face	eyanide	1/12/98	1/12/98
		***************************************		
				-

B-205 10/95

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Methodology Summary	23
GC/MS Volatiles Data:	25
Sample Data Target Compound Results - Organic Analysis Data Sheet Tentatively Identified Compounds	25
Inorganic Data:	
Sample Data	51
Results - Inorganic Analysis Data Sheet	

#### SDG NARRATIVE

Accredited Labs received 9 soil samples (Project: LAKA RI; ALI Case #8050) from LMS Engineers on 01/12/98 for the analyses of Volatile Organics, TAL Metals and Total Cyanide.

All analyses were performed within the required holding time.

All soil analyses were reported on a dry weight basis.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Yun-shen Lee, Ph.D.

Technical Director

ACCREDITED LABORATORIES, INC.

Time: 10:38:_1

#### ORGANIC ANALYSIS LABORATORY CHRONICLE

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335	.2 7 DAY HOLD TIME					
Client: L M S Tes	st Date Due: 01/23/98 se Date Due: 01/22/98					
Client Project Name: L A K A R I	se date due: 01/22/98					
Date Sampled:01/09/98 Date Received:01/12/98 Report Package: Other						
Test: VO Test Description:Volatile Organics (VO)	QC#:					

By Method: TIC **EXTRACTION** SAMPLE IDENTIFICATION ANALYSIS FLAG Time Field# Case# Sample# X Date Init Date Time Init = 16(18-19) WL 8050 9800412 S 16(7-8)8050 9800413 19(4-6) 8050 9800414 S S 19(13-14)8050 9800415 8050 9800416 S 17 (3-4) 8050 9800417 S 19 (22-24) S 8050 9800418 18 (9-10) 18 (23-24) 8050 9800419 S 17 (21-22) 8050 9800420

Reviewed by:

Date:

Z

Abreviations:Sample Matrix: Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge

X=Other

RPT:Report01

# ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:38:0

### HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client: L M S			Test Date	Due: 01/23/98
		Operations	Case Date	Due: 01/22/98
Field#: 17(21-22)	Case#:		Sample#:	

Field#: 17(21-22)
Client Sample Description:

Date Sampled: 01/09/98 Date Received: 01/12/98 Report Package: Other

QC#: 980012 Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

S Alum S Anti S Arse S Bari S Bery S Cadm S Calc	inum Amony Slanic Amony Ballium Ba	5	MDL =====	UNITS	DATE 1/30/98	INIT	$\frac{\frac{\partial \Delta TE}{\partial / \lambda}}{\frac{\partial / \lambda}{\partial / \lambda}}$	INIT  MP  I	REF
S Antis S Arse S Bari S Bery S Cadm S Calc	mony Si nic A: um Ba llium Ba	5			1/30/98		$\frac{3/2}{\frac{3/4}{2}}$	MP	<u></u>
S Arse S Bari S Bery S Cadm S Calc	nic As um Ba llium Ba	a					~ /	m	717
S Bari S Bery S Cadm S Calc	um Ba	a					~ /	M	V17.
S Bery S Cadm S Calc	llium Bo	e				i	~ /		
S Cadm					<del></del>		<del>}</del>	MP	
S Calc	ium Co		- —						
		d							. <u> </u>
~ ~1	ium Ca	a							
S Chro	mium C	r	_				:		
S Coba	lt Co	o							
S Copp	er C	ı				-	<u> </u>		
s Iron	F	e					<u></u>	<u> </u>	
S Lead	Pl	o					3/4	_~	X17
S Magn	esium M	<b>=</b>					3 /3	WP	
S Mang	anese M	n					3/4	MP	

Davidaria	h	Date	DDM - D 0.0
Reviewed	ph:	Date:	RPT:Report02

# ACCREDITED LABORATORIES, INC. Time: 10:38:00

RPT:Report02

		II.	NORGANI	C ANA	LYSIS I	LABORATO	ORY CHRO	NICLE		
HC 0	1/22 OTHE	R=NY-ASP	A CLP	METH	od: Vo	95-1, 0	n 335.2	7 DAY	HOLD T	IME
Fi	ient: L M S eld#: 17(2) ient Sample	L-22)	ation:	c	ase#:	Operati 8050	Tes lons Cas Sam	t Date I e Date I ple#: 9	Due: 01 Due: 01 9800420	/23/9{ /22/98
Da	te Sampled:	01/09/	B Date	e Rec	eived:	01/12/9	8 Repo	rt Packa	age: Ot	her _
Te: Pro Mt:	st: TAL st Descript oject Name: x:A=Aqueous mple Commer	LAKA s:S=Soil:	ARI				Perotabl		G=Slud	
Ву 1	Method:					LA PREPAR		Y CHRONI AN	CLE NALYSIS	
MTX		SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Нд				Africa and the first distance and the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first		ارد		
s	Nickel	Ni				1/20/8	YE	3/2	MI	
s	Potassium	K	***************************************					<u> </u>		
s	Selenium	Se						3/4	<u>~~</u>	<u> 17 - 37</u>
s	Silver	Ag			*arace W			3/3	MC	
S	Sodium	Na			**************************************					
s	Thallium	Tl						$\frac{\partial}{\int}$	N	<u> </u>
S	Vanadium	V						3/9	MP	
s	Zinc	Zn	***			<u> </u>				
							•			
										-
										_
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						***				

Quality control Report Number(s): QC98016018

Reviewed by: _____ Date:____

#### ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

#### HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client: L M S

Test Date Due: 01/23/98

Operations Case Date Due: 01/22/98

Field#: 17(21-22)

Case#: 8050 Sample#: 9800420

Client Sample Description:

Date Sampled: 01/09/98 Date Received: 01/12/98 Report Package: Other

QC#: 980017

Time: 10:38:02

Test Description: Total Analyte List (TAL)

Project Name: LAKA RI

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
=== S	Aluminum	====== Al				140/98		2/2/18		<del>===</del> =
s	Antimony	Sb	-				<del></del>	2/2/48		833
s	Arsenic	As								
s	Barium	Ba		•	-			2/4/48	AR	433-
s	Beryllium	Ве						2/2/58		₹3}-
s	Cadmium	Cd								
s	Calcium	Ca		***************************************				<u> 13/53</u>		23}-
s	Chromium	Cr						2/2/97		<u> 833</u>
s	Cobalt	Co			· ——					1
s	Copper	Çu								
s	Iron	Fe						2/3/58		8 3}-
s	Lead	Pb			-					
S	Magnesium	Mg	30000		-			2/4/47	$-\mathcal{N}_0$	333-
S	Manganese	Mn		*****	-			2/4/18	M	<u>\$33</u>
				***************************************						
	lity control			***************************************	200	 80150B				-

# Date: 01/12/98 ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 10:38: €

## HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Fie Cli Dat Tes Tes Pro Mtx	ent: L M S  ld#: 17(21- ent Sample   e Sampled: (  t: TAL t Descriptic ject Name: 1 :A=Aqueous: ple Comment:	Descri 01/09/ on: To L A K S=Soil	98 Date tal Ana: A R I	e Rec Lyte	List (1	8050 01/12/9 TAL)	ons Cas Sam 8 Repo	rt Packa QC#:	ge: 01	1/22/98 Ther
By M	ethod:	SYM	RESULT		UNITS	LA PREPAR DATE	ATION ===== INIT	Y CHRONI AN  DATE	ALYSIS	REF
S S S S S S	Mercury Nickel Potassium Selenium Silver Sodium Thallium Vanadium Zinc	Hg Ni K Se Ag Na Tl V Zn				1/2/88		2/1/18 2/1/18 2/2/48 2/2/48	- K	\$33-22 \$33-22 \$33-20 \$33-20
	ity control		t Numbe:			<i>2</i> .			6 RPT:Rep	oort02

# ACCREDITED LABORATORIES, INC. Time: 10:38:0 INORGANIC ANALYSIS LABORATORY CHRONICLE

# HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

	x:A=Aqueous: mple Comment	S=Soil	A R I :O=Oil:	-	List (7	lters:		e Water:		.ge:X=
Ву 1	Method:					PREPAR	RATION	Y CHRONI AN	CLE ALYSIS	i i
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
 S	Mercury	 Нд				1/24/98	W,		W	
s	Nickel	Ni				1/20/58	VA			
s	Potassium	ĸ				1	<del></del>	***************************************		
s	Selenium	Se								
s	Silver	Ag								
s	Sodium	Na								
s	Thallium	Tl			***************************************					***************************************
s	Vanadium	V						***************************************		
s	Zinc	Zn					· · · · · · · · · · · · · · · · · · ·			
								4		
	lity control		***************************************			· ( - 0		<del></del>		

### Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 10:39:07

Page:

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800420

Client Sample Description:

Case#: 8050

Client Project Name: L A K A R I

Operations Case Due Date: 01/22/98

Client Field Number: 17(21-22)

Date Sampled: 01/09/98 Date Received: 01/12/98

Report Package: Other

Dhacoc.

FIIdS	Test		ANAL	TICAL D	ATA	SAMPL	E PREP	SAMPLE AN		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
ε	% SOLIDS	01/23/98					***************************************		-	
S	CN	01/23/98	***************************************	0.46	my/h	01/13/925	1	01/13/98	<del>}~</del>	841-18

Reviewed By:		,		Date:					
Matrix: A=Aqueous:	S=Soil:	o=oil:	K=Solid:	F=Filters:	P=Potable	Water:	G=Sludge:	X=Other:	RPT:Report06

00

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:38:22

Page: 1

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

9

Client Project Name: L A K A R I

Client Field Number: 16(18-19)

Sample#: 9800412 Case#: 8050

Operations Case Due Date: 01/22/98

Date Sampled: 01/09/98

Date Received: 01/12/98

Report Package: Other

Phases:

		ANALY	TICAL D	ATA	SAMPLI	E PREP	SAMPLE AN			
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/23/98	96.1	0.10	<u>/</u> .	1/15/58	Du	4/14/8	M	3/29

Date: Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:38:23

Page: 2

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800413

Client Sample Description:

Case#: 8050

Client Project Name: L A K A R I

Operations Case Due Date: 01/22/98

Client Field Number: 16(7-8)

Date Sampled: 01/09/98 Date Received: 01/12/98

Report Package: Other

Phases:

2 2 2 2 2			ANAL	YTICAL DA	ATA	TA SAMPLE PREP			SAMPLE ANALYSIS		
Itx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
s	% SOLIDS	01/23/98	96.4	0110	<u> </u>	<u> </u>	Dr	1/14/98	The	3/29	

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

0

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:38:24

Page:

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I

Client Field Number: 19(4-6)

Sample#: 9800414

Case#: 8050

Operations Case Due Date: 01/22/98 Date Sampled: 01/09/98

Date Received: 01/12/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLE	E PREP	SAMPLE ANA	ALYSIS	
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/23/98	91.5	0,10	<u>/</u> /	4/4/98	Du	4/14/96	m	3/29

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc.
General Chemistry Laboratory Chronicle

Time: 10:38:26

Page: 4

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800415

Client Sample Description:

Case#: 8050

Client Project Name: L A K A R I

Operations Case Due Date: 01/22/98

Client Field Number: 19(13-14)

Date Sampled: 01/09/98 Date Received: 01/12/98

Report Package: Other

Phases:

		Test	ANALY	ANALYTICAL DATA			E PREP	SAMPLE AN		
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/23/98	97.1	010	<u> </u>	1/13/51	· Du	1/14/18	Du	3/29

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

4

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:38:36

Page: 5

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I

Client Field Number: 17(3-4)

Sample#: 9800416

Case#: 8050

Operations Case Due Date: 01/22/98

Date Sampled: 01/09/98

Date Received: 01/12/98

Report Package: Other

Phases:

	Test		ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE AN		
1tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/23/98	89.2	0110		1/13/98	m	1/14/98	M	3/29

Reviewed By:

Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 10:38:44

Page: 6

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800417

Client Sample Description:

Case#: 8050

Client Project Name: L A K A R I

Operations Case Due Date: 01/22/98

Client Field Number: 19(22-24)

Date Sampled: 01/09/98 Date Received: 01/12/98

Report Package: Other

Phases:

		Test	ANALY	YTICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/23/98	97.1	0,10	<u> </u>	4/13/98	Ma	1/14/9	y m	3/29

Reviewed By:

Date: /

1-14-98

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

74

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 10:38:51

Page: 7

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I

Client Field Number: 18(9-10)

Sample#: 9800418

Case#: 8050

Operations Case Due Date: 01/22/98

Date Sampled: 01/09/98 Date Received: 01/12/98

Report Package: Other

Phases:

			ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE ANA	ALYSIS	
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/23/98	96. 9	0.10	<u>/.</u> .	4/13/98	Du	1/14/98	Du	3129

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc.
General Chemistry Laboratory Chronicle

Time: 10:38:59

Page: 8

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800419

Client Sample Description:

Case#: 8050

Client Project Name: L A K A R I

Operations Case Due Date: 01/22/98

Client Field Number: 18(23-24)

Date Sampled: 01/09/98 Date Received: 01/12/98

Report Package: Other

Phases:

		Test	ANALYTICAL DATA SAMPLE PREP SAMPLE ANALYSIS							
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/23/98	96.3	0.10		1/13/48	M	4/14/98	Du	3129

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

1

Accredited Laboratories, Inc.
General Chemistry Laboratory Chronicle

Time: 10:39:07

Page: 9

HC 01/22 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 335.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I

Client Field Number: 17(21-22)

Sample#: 9800420 Case#: 8050

Operations Case Due Date: 01/22/98

Date Sampled: 01/09/98 Date Received: 01/12/98

Report Package: Other

Phases:

I mab.		Ma a t	ANALY	TICAL DA	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/23/98	95.8	0.10	<u>/</u> .	<u> </u>	M	1/14/98	Du	2136
S	CN	01/23/98	A							

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

7

# Λ

### ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FOR !--

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

	1		1
PAGE		OF	

<b>CUENT</b>	LMS Engineers
ADDRESS	One Blue Hill Plaza
CITY	Pearl River, NY 10965
STATE	ZIP

PROJECT	LAKA RI	
CONTACT*	Maria Heinte	
PHONE 4	914 - 735 - 8300	
FAX ®	914-735-7466	

		l hazzai				
ALISAMPLE#	A FIELDID	·c	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
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	FLGP-19(4-6)	l	5	"//205	(1	Voc
	FLGP-19 (13-14)	1	5	"/1210	V	Voc
9800416	FLGP-17(3-4)	1	3	"/1025	¥	Voc
	FLGP-19 (22-24)	1	5	"/1215	1(	Voc
9300418	FLGP-18 (9-10)	1	5	" / 1105	(i	Voc
9300419	FLGP-18 (9-10) FLGP-18 (23-24)	1	5	" / //30	IC .	Voc
9300420	FLGP-17 (21-22)	1	5	"/1040	(1	Voc -
	FLGP-17(21-22)		5	"/1042	11	TAL Metals / CN-
	11.1					
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		·		7	2001	
					Test	
**M = MATRIX	. A=AQUEOUS	S=S	OIL	:G=SLŪDGE	*P=POTABLE WATER : O=O	IL F=FILTER K=SOUD X=OTHER

*C,=NO. CO	NTAINERS 7	TURNAROUN	D:				_ (If Bla	nk, Std. 3 weeks)
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Scott G. Engl	SIC ler + North 2	Exlect	PRINT	SIGN				
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PERSON(S) ASSU		,,	SAMPLING: PRINT:_	Scot G. E	Nalent	_ SIGN:	lests -	B. English
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COMMENTS						P.O.#		

# Accredited Laboratories, Inc. INTERNAL CHAIN OF CUSTODY

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			Laboratory #	Test Name Date Sa		mpled	Date Rec
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### Accredited Laboratories, Inc.

### INTERNAL CHAIN OF CUSTODY

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Case No		8050		Check if No Seal on	Sample Shuttle.			
	Field	#	Laboratory #	Test Name	Date Sam	pled	Date Received	
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FORM: 291COC

### Accredited Laboratories, Inc.

### INTERNAL CHAIN OF CUSTODY

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Case No	).	8050	-	Check if No Seal on S	ample Shuttle.			
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17(21-22) 9800420				CN	01/09	/98	01/12/98	
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### Accredited Laboratories, Inc.

### INTERNAL CHAIN OF CUSTODY

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FORM: 291COC

#### METHODOLOGY SUMMARY

Volatile Organics: EPA-CLP-SOW (Document Number OLM03.1)

#### Soil/Sediment Samples

a. Low level:

An inert gas is purged through a mixture containing 5g of sample and reagent water at an elevated temperature. The volatile organics are efficiently transferred from aqueous phase to the vapor phase and then trapped onto a sorbent column. When purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the volatile organics from the sorbent column to a GC column. The GC is temperature programmed to separate the volatile organics which are then detected and quantified with a mass spectrometer.

TAL Metals: EPA-CLP-SOW (Document Number ILM04.0)

#### Soil/Sediment Samples

A 1qm portion of sample is digested with nitric acid and hydrogen The digestate is then refluxed with either nitric acid or hydrochloric acid. Diluted hydrochloric acid is used as the final reflux acid for the Furnace AA analysis of Sb, the Flame AA or ICP analysis of Al, Sb, Ba, Be, Ca, Cd, Cr, Co, Cu, Fe, Pb, Mq, Mn, Ni, K, Ag, Na, Tl, V and Zn. Nitric acid is employed as the final reflux acid for the Furnace AA analysis of As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, Se, Ag, Tl, V and Zn. For the graphite furnace analysis, an aliquot of the digestate is spiked with modifier solution and is placed into the graphite furnace. aliquot is then slowly evaporated to dryness, charred and atomized. The absorption of the EDL radiation during atomization is proportional to the element concentration. For the flame AA, the digestate is aspirated and atomized in a flame. The absorption of the HCL radiation during atomization is proportional to the element concentration. The basis of ICAP method is the measurement of atomic emission by an optical spectroscope technique. spectra are dispersed by a grating spectrometer and the intensities of the line are measured and processed by a computer system. mercury analysis, a 0.2gm portion of sample is digested with potassium permanganate and persulfate at acidic condition in a water bath at 95°C. The mercury in the sample is reduced to the elemental state and detected by the cold vapor technique in a closed system.

Total Cyanide: EPA-CLP-SOW (Document Number ILM03.0)

#### Soil/Sediment Samples

23

A 1-5gm portion of sample mixed with reagent water is placed into a cyanide distillation appartus. Hydrogen cyanide gas is liberated from the aqueous solution upon addition of sulfuric acid, magnesium chloride solution and heat. The hydrogen cyanide gas is trapped in a scrubber containing sodium hydroxide solution. The color is formed when the reagents of chloramine-T and pyridine-barbifuric

acid mixture is added into scrubber solution. The intensity of the color is measured spectrophotometrically and is proportional to the concentration of cyanide in the solution.

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

16-18-19

Lab Name: ACCREDITED	LABS, INC.	Contract:	
Lab Code: 11109 (	Case No.: 8050	SAS No.: SDG	No.:
Matrix: (soil/water)	SOIL	Lab Sample ID:	: 9800412
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>C6581
_ Level: (low/med)	LOW	Date Received:	: 01/12/98
% Moisture: not dec.	4	Date Analyzed:	: 01/15/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Facto	or: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot V	Volume:(uL)
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/F	
74-83-9 75-01-4 75-09-2 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 75-27-4 78-87-5 10061-01-5 79-01-6 79-01-6 79-01-6 79-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6	Carbon Disulfid1,1-Dichloroeth1,2-Dichloroeth1,2-Dichloroeth1,2-Dichloroeth2-Butanone1,1,1-TrichloroCarbon TetrachlBromodichlorome1,2-Dichloroprocis-1,3-DichlorTrichloroetheneDibromochlorome1,1,2-TrichloroBenzenetrans-1,3-DichlBromoform4-Methyl-2-Pent	de dene dane dene (total) dane dethane de de de de de de de de de de de de de	10 U U 10 U 10 U 10 U 10 U 10 U 10 U 10

10 10

10

10 10 10

79-34-5-----1,1,2,2-Tetrachloroethane 108-88-3-----Toluene

108-90-7-----Chlorobenzene

100-41-4-----Ethylbenzene 100-42-5-----Styrene 1330-20-7------Xylene (total)

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	N

Lab Name: ACCREDITED	LABS, INC.	Contract:	16-18-19
Lab Code: 11109	Case No.: 8050	SAS No.: SDG No	·:
<pre>Matrix: (soil/water)</pre>	SOIL	Lab Sample ID: 9	800412
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	C6581
Level: (low/med)	LOW	Date Received: 0	1/12/98
% Moisture: not dec.	4	Date Analyzed: 0	1/15/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	.ume:(uL)
		CONCENTRATION UNITS:	,

(ug/L or ug/Kg) UG/KG

Number TICs found: 3

COMPOUND NAME RTCAS NUMBER EST. CONC. O _____ ____________ ____ 8.75 Unknown Hydrocarbon N 2._ Unknown Hydrocarbon 26.54 10 N 3.___ 4._ 5._ 7._ 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

## VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

	Lab Name: ACCREDITE	DIARS INC	Contract:	16-7-8
	Lab Code: 11109	•	SAS No.: SDG No	),:
	Matrix: (soil/water	) SOIL	Lab Sample ID: 9	800413
	Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >	C6598
سحا	Level: (low/med)	LOW	Date Received: 0	01/12/98
	% Moisture: not dec	. 4	Date Analyzed: 0	01/16/98
_	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume	:(uL)	Soil Aliquot Vol	ume:(uL)

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

	Chloromethane	10	U
	Bromomethane	10	U
	Vinyl Chloride	10	U
	Chloroethane	10	U
	Methylene Chloride	8	$J_B$
67-64-1		10	U
	Carbon Disulfide	10	U
	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
	1,2-Dichloroethene (total)	10	U
	Chloroform	10	U
	1,2-Dichloroethane	10	UU
	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2		10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
	2-Hexanone	10	U
	Tetrachloroethene	10	U
	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	` 10	U
1330-20-7	Xylene (total)	10	U

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NC
16	5-7-Ω	- 1

Lab	Name:	ACCREDITE	LABS,	INC.	Contract:	_		16-7-8
Lab	Code:	11109	Case No	.: 8050	SAS No.:	SDG	No.:	•

Matrix: (soil/water) SOIL Lab Sample ID: 9800413

Lab File ID: >C6598 Sample wt/vol:  $5.0 \quad (g/mL) G$ 

Level: (low/med) LOW Date Received: 01/12/98

% Moisture: not dec. 4 Date Analyzed: 01/16/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

Number TICs found: 6 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	Unknown Hydrocarbon Unknown Hydrocarbon Unknown Unknown Unknown Unknown Unknown Aromatic Unknown	23.74 24.65 26.57 28.39 29.31 29.72	12 5 5 8 16 5	N N N N N N
12. 13. 14. 15. 16. 17. 18. 19. 20.				
22. 23. 24. 25.				
27. 28. 29. 30.				

EPA SAMPLE NO.

						19-4-6
Lab	Name:	ACCREDITED	LABS,	INC.	Contract:	

Matrix: (soil/water) SOIL Lab Sample ID: 9800414

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >C6583

Level: (low/med) LOW Date Received: 01/12/98

% Moisture: not dec. 9 Date Analyzed: 01/15/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
	Vinyl Chloride	11	U
	Chloroethane	11	U
75-09-2	Methylene Chloride	10	JB
67-64-1		11	- U -
75-15-0	Carbon Disulfide	11	U
	1,1-Dichloroethene	11	U
	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
	trans-1,3-Dichloropropene	11	U
75-25-2		11	U
	4-Methyl-2-Pentanone	1.1	U
	2-Hexanone	11	U
	Tetrachloroethene	11	U
	1,1,2,2-Tetrachloroethane	11	U
108-88-3		11	U
	Chlorobenzene	11	U
	Ethylbenzene	11	U
100-42-5		. 11	U
1330-20-7	Xylene (total)	11	U
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EPA	SAMPLE	NO
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10	3-4-6	

Lab	Name:	ACCREDITE	LABS, INC.	Contract:	19-4-6
Lab	Code:	11109	Case No.: 8050	SAS No.: SDG	No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 9800414

Lab File ID: >C6583

Sample wt/vol:

5.0 (g/mL) G Lab File ID:

Level: (low/med) LOW Date Received: 01/12/98

% Moisture: not dec. 9
Date Analyzed: 01/15/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 3 (ug/L or ug/

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q ====
1. 2. 3.	Unknown Hydrocarbon	8.78	96	N
2	Unknown	21.14	6	N
3	Unknown Hydrocarbon	26.53	15	N
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### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCREDITE	D LABS, INC.	Contract:	19-13-14
Lab Code: 11109	Case No.: 8050	SAS No.: SDG	No.:
Matrix: (soil/water	) SOIL	Lab Sample ID:	9800415
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>C6584

Level: (low/med) LOW Date Received: 01/12/98

% Moisture: not dec. 3 Date Analyzed: 01/15/98

■ GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

		1
74-87-3Chloromethane	10	U
74-83-9Bromomethane	10	U
75-01-4Vinyl Chloride	10	_U
75-00-3Chloroethane	10	J
75-09-2Methylene Chloride	7	J B
67-64-1Acetone	10	
75-15-0Carbon Disulfide	10	u
75-35-41,1-Dichloroethene	10	U
75-34-31,1-Dichloroethane	10	U
540-59-01,2-Dichloroethene (total)	10	
67-66-3Chloroform	10	U
107-06-21,2-Dichloroethane	10	U
78-93-32-Butanone	10	U
71-55-61,1,1-Trichloroethane	10	U
56-23-5Carbon Tetrachloride	10	11
75-27-4Bromodichloromethane	10	
78-87-51,2-Dichloropropane	10	<u></u>
10061-01-5cis-1,3-Dichloropropene	10	
79-01-6Trichloroethene	10	
124-48-1Dibromochloromethane	10	
79-00-51,1,2-Trichloroethane	10	U
71-43-2Benzene	10	- U
10061-02-6trans-1,3-Dichloropropene	10	Ū
75-25-2Bromoform	10	
108-10-14-Methyl-2-Pentanone	10	U
591-78-62-Hexanone	10	U
127-18-4Tetrachloroethene	10	U
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	U
108-90-7Chlorobenzene	10	U
100-41-4Ethylbenzene	10	Ū
100-42-5Styrene	10	
1330-20-7Xylene (total)	10	<u>ū</u>
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	EPA	SAMPLE	NO
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	19	9-13-14	-

		10 12 14
Lab Name: ACCREDITED LABS, INC.	Contract:	19-13-14
Lab Code: 11109 Case No.: 8050	SAS No.: SDG No	·.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9	9800415

Level: (low/med) LOW Date Received: 01/12/98

Sample wt/vol: 5.0 (g/mL) G

Number TICs found: 2

% Moisture: not dec. 3 Date Analyzed: 01/15/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Lab File ID: >C6584

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Hydrocarbon Unknown	8.79 26.58	59 5	N
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	17-3-4
Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800416
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >C6599
Level: (low/med) LOW	Date Received: 01/12/98
% Moisture: not dec. 11	Date Analyzed: 01/16/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
	CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

COMPOUND

CAS NO.

11 74-87-3-----Chloromethane U 74-83-9-----Bromomethane 11 Ū 75-01-4-----Vinyl Chloride 11 U 75-00-3-----Chloroethane 11 Ū  $\overline{J}$   $\overline{B}$ 75-09-2----Methylene Chloride 10 Ū 67-64-1-----Acetone 11 75-15-0-----Carbon Disulfide 11 Ū 75-35-4----1,1-Dichloroethene 11 U 75-34-3----1,1-Dichloroethane 11 U 540-59-0----1,2-Dichloroethene (total) 11 U 67-66-3-----Chloroform 11 U 107-06-2----1, 2-Dichloroethane U 11 78-93-3----2-Butanone 11 U 71-55-6----1,1,1-Trichloroethane 11 U 56-23-5----Carbon Tetrachloride 11 U 75-27-4-----Bromodichloromethane 11 U. 78-87-5----1,2-Dichloropropane_ 11 U 10061-01-5----cis-1,3-Dichloropropene 11 U 79-01-6----Trichloroethene 11 U 124-48-1-----Dibromochloromethane 11 П 79-00-5----1,1,2-Trichloroethane 11 H 71-43-2----Benzene 10061-02-6----trans-1,3-Dichloropropene 11 H 11 Ħ 75-25-2----Bromoform 11 U 108-10-1----4-Methyl-2-Pentanone 11 U 591-78-6----2-Hexanone 11 U 127-18-4----Tetrachloroethene 11 U 79-34-5----1,1,2,2-Tetrachloroethane 11 H 108-88-3----Toluene 11 U 108-90-7-----Chlorobenzene U 11 100-41-4----Ethylbenzene 11 U 100-42-5-----Styrene 11 U 1330-20-7-----Xylene (total) 11 U

	EPA	SAMPLE	NC
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Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109 Case No.: 8050	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800416
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >C6599
Level: (low/med) LOW	Date Received: 01/12/98
% Moisture: not dec. 11	Date Analyzed: 01/16/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume:(uL)
Number TICs found: 1	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Hydrocarbon	26.55	11	N =====
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#### 1 A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ACCREDITED LABS, INC.	Contract:	19-22-24
Lab Code: 11109 Case No.: 8050	SAS No.: SDG No	· :
Matrix: (soil/water) SOIL	Lab Sample ID: 9	800417

Level: (low/med) LOW Date Received: 01/12/98

Sample wt/vol: 5.0 (g/mL) G

Date Analyzed: 01/16/98 % Moisture: not dec. 3

■ GC Column: RTX-502 ID:  $0.53 \, (mm)$ Dilution Factor: 1.0

Soil Aliquot Volume: ___ (uL) Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG Q

Lab File ID: >C6600

74-87-3-----Chloromethane 10 U U 74-83-9-----Bromomethane 10 75-01-4-----Vinyl Chloride 1.0 บ 75-00-3-----Chloroethane 10 75-09-2----Methylene Chloride 10 JB 67-64-1-----Acetone 10 Ū 75-15-0-----Carbon Disulfide 10 Ù. 75-35-4----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane 10 U 540-59-0----1,2-Dichloroethene (total) 10 67-66-3-----Chloroform 10 107-06-2----1,2-Dichloroethane 10 78-93-3----2-Butanone U 10 71-55-6----1,1,1-Trichloroethane U 10 56-23-5-----Carbon Tetrachloride U 10 75-27-4-----Bromodichloromethane U 10 78-87-5----1,2-Dichloropropane_ 10 ับ 10061-01-5----cis-1,3-Dichloropropene U 10 79-01-6-----Trichloroethene 10 Ū 124-48-1----Dibromochloromethane 10 U 79-00-5-----1,1,2-Trichloroethane U 10 71-43-2----Benzene U 10 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 11 108-10-1----4-Methyl-2-Pentanone 10 U 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane U 10 108-88-3-----Toluene 10 U 108-90-7-----Chlorobenzene 10 U 100-41-4----Ethylbenzene 10 U 100-42-5-----Styrene 10 U 1330-20-7-----Xylene (total) 10 U 35

EPA	SAMPLE	NO
1 0	9-22-24	

Lab Name: ACCREDITED	LABS, INC.	Contract:	19-22-24
Lab Code: 11109	Case No.: 8050	SAS No.: SDG No	) <b>.:</b>
Matrix: (soil/water)	SOIL	Lab Sample ID: 9	800417
Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >	·C6600
Level: (low/med)	LOW	Date Received: 0	1/12/98
% Moisture: not dec.	3	Date Analyzed: 0	1/16/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
Number TICs found:	1	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	Unknown	26.53	7	N N
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## VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

18-9-10

Lab 1	Name: ACCREDITE	D LABS, INC.	Contract:	
Lab (	Code: 11109	Case No.: 8050	SAS No.: SDG N	10.:
Matri	ix: (soil/water	) SOIL	Lab Sample ID:	9800418
Samp	le wt/vol:	5.0 (g/mL) G	Lab File ID:	>C6601
_ Level	l: (low/med)	LOW	Date Received:	01/12/98
% Moi	isture: not dec	. 3	Date Analyzed:	01/16/98
GC Cc	olumn: RTX-502	ID: 0.53 (mm)	Dilution Factor	1.0
Soil	Extract Volume	:(uL)	Soil Aliquot Vo	olume:(uL)
***	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Ç Q
•	74-87-3	Chloromethane		10 U

74-87-3			
75-01-4Vinyl Chloride       10       U         75-00-3Chloroethane       10       U         75-09-2Methylene Chloride       9       J B         67-64-1Acetone       10       U         75-15-0Carbon Disulfide       10       U         75-35-41,1-Dichloroethane       10       U         540-59-01,2-Dichloroethane       10       U         67-66-3		10	U
T5-00-3		10	U
75-09-2Methylene Chloride       9       J B         67-64-1	75-01-4Vinyl Chloride	10	U
67-64-1	75-00-3Chloroethane	10	
67-64-1	75-09-2Methylene Chloride	9	JB
75-35-41,1-Dichloroethene       10       U         75-34-31,1-Dichloroethane       10       U         540-59-01,2-Dichloroethene (total)       10       U         67-66-3Chloroform       10       U         107-06-21,2-Dichloroethane       10       U         78-93-32-Butanone       10       U         71-55-61,1,1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51,2-Dichloropropane       10       U         10061-01-5cis-1,3-Dichloropropane       10       U         79-01-6Trichloroethane       10       U         79-01-6Trichloroethane       10       U         79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       10       U         10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-1	67-64-1Acetone	10	$\overline{U}$
75-34-31, 1-Dichloroethane       10       U         540-59-01, 2-Dichloroethene (total)       10       U         67-66-3		10	U
540-59-01, 2-Dichloroethene (total)       10       U         67-66-3Chloroform       10       U         107-06-21, 2-Dichloroethane       10       U         78-93-32-Butanone       10       U         71-55-61, 1, 1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51, 2-Dichloropropane       10       U         10061-01-5cis-1, 3-Dichloropropene       10       U         79-01-6Trichloroethene       10       U         124-48-1Dibromochloromethane       10       U         12-43-2Benzene       10       U         10061-02-6trans-1, 3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-1	75-35-41,1-Dichloroethene	10	U
540-59-01, 2-Dichloroethene (total)       10       U         67-66-3Chloroform       10       U         107-06-21, 2-Dichloroethane       10       U         78-93-32-Butanone       10       U         71-55-61, 1, 1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51, 2-Dichloropropane       10       U         10061-01-5cis-1, 3-Dichloropropene       10       U         79-01-6Trichloroethene       10       U         124-48-1Dibromochloromethane       10       U         12-43-2Benzene       10       U         10061-02-6trans-1, 3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-1	75-34-31,1-Dichloroethane	10	U
67-66-3Chloroform       10       U         107-06-21,2-Dichloroethane       10       U         78-93-32Butanone       10       U         71-55-61,1,1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51,2-Dichloropropane       10       U         10061-01-5is-1,3-Dichloropropene       10       U         79-01-6Trichloroethene       10       U         79-01-6Trichloroethane       10       U         79-01-6Trichloroethane       10       U         79-01-6Trichloroethane       10       U         79-01-6Trichloroethane       10       U         79-01-6Trichloroethane       10       U         79-01-6Trichloroethane       10       U         79-01-6Trichloroethane       10       U         79-01-6	540-59-01,2-Dichloroethene (total)	10	U
78-93-32-Butanone       10       U         71-55-61,1,1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51,2-Dichloropropane       10       U         10061-01-5cis-1,3-Dichloropropene       10       U         79-01-6Trichloroethane       10       U         124-48-1Dibromochloromethane       10       U         79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       10       U         1061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-6	67-66-3Chloroform	10	U
71-55-61,1,1-Trichloroethane       10       U         56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51,2-Dichloropropane       10       U         10061-01-5is-1,3-Dichloropropene       10       U         79-01-6Trichloroethene       10       U         124-48-1Dibromochloromethane       10       U         79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       10       U         10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-5Toluene       10       U         108-88-3Chlorobenzene       10       U         100-41-4	107-06-21,2-Dichloroethane	10	U
56-23-5Carbon Tetrachloride       10       U         75-27-4Bromodichloromethane       10       U         78-87-51, 2-Dichloropropane       10       U         10061-01-5cis-1, 3-Dichloropropene       10       U         79-01-6Trichloroethene       10       U         124-48-1Dibromochloromethane       10       U         79-00-51, 1, 2-Trichloroethane       10       U         71-43-2Benzene       10       U         1061-02-6trans-1, 3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4	78-93-32-Butanone	10	U
75-27-4Bromodichloromethane       10       U         78-87-51,2-Dichloropropane       10       U         10061-01-5cis-1,3-Dichloropropene       10       U         79-01-6Trichloroethene       10       U         124-48-1Dibromochloromethane       10       U         79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       10       U         1061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-5Toluene       10       U         108-88-3Toluene       10       U         109-41-4Ethylbenzene       10       U         100-42-5	71-55-61,1,1-Trichloroethane	10	U
78-87-51, 2-Dichloropropane       10       U         10061-01-5cis-1, 3-Dichloropropene       10       U         79-01-6Trichloroethene       10       U         124-48-1Dibromochloromethane       10       U         79-00-51, 1, 2-Trichloroethane       10       U         71-43-2Benzene       10       U         10061-02-6trans-1, 3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U	56-23-5Carbon Tetrachloride	10	U
10061-01-5cis-1,3-Dichloropropene       10       U         79-01-6Trichloroethene       10       U         124-48-1Dibromochloromethane       10       U         79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       10       U         10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5	75-27-4Bromodichloromethane	10	U [
79-01-6Trichloroethene       10       U         124-48-1Dibromochloromethane       10       U         79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       10       U         10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U	78-87-51,2-Dichloropropane	10	U
124-48-1Dibromochloromethane       10       U         79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       10       U         10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U		10	U
79-00-51,1,2-Trichloroethane       10       U         71-43-2Benzene       10       U         10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U	79-01-6Trichloroethene	10	U
71-43-2Benzene       10       U         10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U		10	U
10061-02-6trans-1,3-Dichloropropene       10       U         75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U	79-00-51,1,2-Trichloroethane	10	U
75-25-2Bromoform       10       U         108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U		10	U
108-10-14-Methyl-2-Pentanone       10       U         591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U		10	U
591-78-62-Hexanone       10       U         127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U		10	U
127-18-4Tetrachloroethene       10       U         79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U			
79-34-51,1,2,2-Tetrachloroethane       10       U         108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U			U
108-88-3Toluene       10       U         108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U			UU
108-90-7Chlorobenzene       10       U         100-41-4Ethylbenzene       10       U         100-42-5Styrene       10       U		10	U
100-41-4Ethylbenzene 10 U 100-42-5Styrene 10 U		10	U
100-42-5Styrene 10 U		10	U
	100-41-4Ethylbenzene	10	U
1330-20-7Xylene (total) 10 U		. 10	U
	1330-20-7Xylene (total)	10	U

EPA	SAMPLE	NC
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1.8	3-9-10	1

Lab Name: ACCREDITED LABS, INC.	Contract:
Lab Code: 11109	SAS No.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800418
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >C6601
Level: (low/med) LOW	Date Received: 01/12/98
% Moisture: not dec. 3	Date Analyzed: 01/16/98
GC Column: RTX-502 ID: 0.53 (mm)	Dilution Factor: 1.0
Soil Extract Volume:(uL)	Soil Aliquot Volume: (uL)

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER COMPOUND NAME EST. CONC. Q AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE ======= -----26.58 Unknown N 1. 2._ 3._ 4._ 5.__ 6._ 7._ 8. 9. 10. 11. 12. 13. 14. 15. 16._ 17. 18. 19. 20. 21._ 22. 23. 24. 25. 26. 27. 28. 29.

EPA SAMPLE NO.

18	-21	3-2	4	

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	Lab Name: ACCREDITE	D LABS, INC.	Contract:	18-23-24
٠,	Lab Code: 11109	•	SAS No.: SDG No	).:
	Matrix: (soil/water)	SOIL	Lab Sample ID: 9	9800419
	Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >	D4304
	Level: (low/med)	LOW	Date Received: 0	1/12/98
	% Moisture: not dec.	. 4	Date Analyzed: 0	1/16/98
	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume:	(uT.)	Soil Aliquot Vol	ume: (uL)

COMPOUND

CAS NO.

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

74-87-3-----Chloromethane 10 [1 74-83-9-----Bromomethane 10 ์ บ -75-01-4-----Vinyl Chloride 10 75-00-3-----Chloroethane 10 ĨUĨ 75-09-2----Methylene Chloride 4 67-64-1-----Acetone 10 Ū 75-15-0-----Carbon Disulfide Ū 10 75-35-4----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane 10 U 540-59-0----1,2-Dichloroethene (total) 10 U` 67-66-3-----Chloroform Ū 10 107-06-2----1,2-Dichloroethane U 10 78-93-3----2-Butanone Ū 10 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride U 10 75-27-4-----Bromodichloromethane 10 Ū 78-87-5----1,2-Dichloropropane U 10 10061-01-5----cis-1,3-Dichloropropene 10 Ū 79-01-6----Trichloroethene 10 Ù 124-48-1-----Dibromochloromethane U 10 79-00-5----1,1,2-Trichloroethane 10 Ū 71-43-2----Benzene 10 U 10061-02-6----trans-1,3-Dichloropropene Ū 10 75-25-2----Bromoform U 10 108-10-1-----4-Methyl-2-PentanoneU 10 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene 10 U 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene U 10 108-90-7-----Chlorobenzene 10 U 100-41-4----Ethylbenzene 10 U 100-42-5-----Styrene 10 11 1330-20-7-----Xylene (total) 10 U

EPA	SAMPLE	NC

18-23-24	
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Lab	Name:	ACCREDITED	LABS, INC.	Contract:	<del></del>	18-23-24	
Lab	Code:	11109	Case No.: 8050	SAS No.:	SDG	No.:	•

Matrix: (soil/water) SOIL

Lab Sample ID: 9800419

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >D4304

Level: (low/med) LOW

Date Received: 01/12/98

% Moisture: not dec. 4

Date Analyzed: 01/16/98

GC Column: RTX-502

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131 2. 3. 4.	Ethane, 1,1,2-trichloro-1,2, Unknown	9.99	64	N N
5. 6. 7. 8.				
9.				
3. 4. 5. 6. 7.				
8. 9. 0.				
2. 3. 4. 5.				
6. 7. 8.				
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### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

17-21-22

	Lab Name: ACCREDITE	D LABS, INC.	Contract:	
	Lab Code: 11109	Case No.: 8050	SAS No.: SDG No	o.:
	Matrix: (soil/water	) SOIL	Lab Sample ID: 9	9800420
	Sample wt/vol:		Lab File ID: >	>C6603
_	Level: (low/med)	LOW	Date Received: 0	01/12/98
	% Moisture: not dec	. 4	Date Analyzed: 0	01/16/98
~	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume	(uL)	Soil Aliquot Vol	.ume:(uL)
-	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	0

74-87-3	Chloromethane	10	U
	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
	Chloroethane	10	U
	Methylene Chloride	9	JB
67-64-1		10	- <del>u</del> -
	Carbon Disulfide	10	u
	1,1-Dichloroethene	10	$ -\tilde{U}- $
75-34-3	1,1-Dichloroethane	10	U
	1,2-Dichloroethene (total)	10	U
67-66-3		10	u
	1,2-Dichloroethane	10	U
78-93-3		10	
1	1,1,1-Trichloroethane	10	11
	Carbon Tetrachloride	10	
		= -	
	Bromodichloromethane	10	l l
/8-8/-5	1,2-Dichloropropane	10	U
	cis-1,3-Dichloropropene	10	U
	Trichloroethene	10	U
	Dibromochloromethane	10	U
•	1,1,2-Trichloroethane	10	U
71-43-2		10	U
	trans-1,3-Dichloropropene	10	U
75-25-2		10	U
i .	4-Methyl-2-Pentanone	10	U
591-78-6		10	]U
	Tetrachloroethene	10	UU
	1,1,2,2-Tetrachloroethane	10	UU
108-88-3		10	U
	Chlorobenzene	10	UU
	Ethylbenzene	10	U
100-42-5		` 10	U
1330-20-7	Xylene (total)	10	U
			111

EPA	SAMPLE	NC
17	7-21-22	

	IENIALIVELI	IDENTIFIED COMPOUNDS	17 21 22
Lab Name: ACCREDITE	D LABS, INC.	Contract:	17-21-22
Lab Code: 11109	Case No.: 8050	SAS No.: SDG 1	No.:
Matrix: (soil/water	) SOIL	Lab Sample ID:	9800420
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>C6603

Level: (low/med) LOW Date Received: 01/12/98

Number TICs found: 1

% Moisture: not dec. 4 Date Analyzed: 01/16/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME		EST. CONC.	Q
£ .	nknown	26.56		====
2.				
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Lab Name: ACCREDITED	LABS, INC. Co	entract:	VBI	LKC84
Lab Code: 11109			SDG No.:	
Matrix: (soil/water)			e ID: VBLKC84	4
Sample wt/vol:		Lab File	ID: >C6551	
Level: (low/med)		Date Rece	ived: 01/14/9	3.8
, ,				
<pre>% Moisture: not dec.</pre>	0	Date Analy	yzed: 01/14/9	18
GC Column: RTX-502	ID: 0.53 (mm)	Dilution I	Factor: 1.	. O
Soil Extract Volume:	(uL)	Soil Aliqu	uot Volume: _	(uI
CAS NO.	COMPOUND	CONCENTRATION UN		0
CAS NO.	COMPOUND	(ug/L or ug/Kg)		Q
	Chloromethane_		10	U
	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
	Chloroethane		10	U
75-09-2	Methylene Chlori	de	10	U
67-64-1			****	U
	Carbon Disulfide			U
	1,1-Dichloroethe		10	-U
	1,1-Dichloroetha 1,2-Dichloroethe		10  -	-ŭ
67-66-3		ne (cocai)		- <del>u</del>
	1,2-Dichloroetha	ne		<u>u</u> – l
78-93-3				ŭ
	1,1,1-Trichloroe	thane		Ŭ
56-23-5	Carbon Tetrachlo	ride	COMMAND TO SOME	U
75-27-4	Bromodichloromet	nane	10	U
	1,2-Dichloropropa		10	U
10061-01-5	cis-1,3-Dichloro	propene		U
	Trichloroethene_			U
	Dibromochlorometl			U
79-00-5	1,1,2-Trichloroe	thane		U
71-43-2	вепzene trans-1,3-Dichlo	- CONTONO		U
75-25-2	Crans-1,3-DICHIO	obt obene		U
	4-Methyl-2-Pentai	none		U
591-78-6		10116		Ū
127-18-4	Tetrachloroethene	2		-U
	1,1,2,2-Tetrachlo			U
108-88-3	Toluene		10	U
	Chlorobenzene			U
100-41-4	Ethylbenzene			U
100-42-5				U
1330-20-7	Xylene (total)		10	U
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EPA	SAMPLE	NC
v	BLKC84	1

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Lab Name: ACCREDITED	LABS, INC. Cont	ract:	VBLKC84
Lab Code: 11109 C	ase No.: 8050 LMC SAS	No.: SDG No	·:
Matrix: (soil/water)	SOIL	Lab Sample ID: V	/BLKC84
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	C6551
Level: (low/med)	LOW	Date Received: (	01/14/98
% Moisture: not dec.	0	Date Analyzed: (	01/14/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vol	lume:(uL)
Number TICs found:	_	ONCENTRATION UNITS: ug/L or ug/Kg) UG/KG	!

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VBLKC86

			i	VBLKC86
÷	Lab Name: ACCREDITED	LABS, INC.	Contract:	VBLKCOO
	Lab Code: 11109 (	Case No.: 8050 Luc	SAS No.: SDG No	· . :
	Matrix: (soil/water)	SOIL	Lab Sample ID: V	BLKC86
	Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >	C6577
	Level: (low/med) I	LOW	Date Received: 0	1/15/98
	% Moisture: not dec.	0	Date Analyzed: 0	1/15/98
بيب	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
•	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

74-87-3Chloromethane       10       0         74-83-9Bromomethane       10       0         75-01-4Vinyl Chloride       10       0         75-00-3Chloroethane       10       0	J
75-01-4Vinyl Chloride 10	J J
	J
75-00-3Chloroethane	
75-09-2Methylene Chloride 4 J	
67-64-1Acetone	′ 1
75-15-0Carbon <u>Disulfide</u> 10 10	J
75-35-41,1-Dichloroethene 10	,
75-34-31,1-Dichloroethane 10	ı
540-59-01,2-Dichloroethene (total) 10	,
67-66-3Chloroform 10 T	J
107-06-21,2-Dichloroethane 10 T	1
78-93-32-Butanone 10 T	,
71-55-61,1,1-Trichloroethane 10	,
56-23-5Carbon Tetrachloride	J
75-27-4Bromodichloromethane 10 T	1
78-87-51,2-Dichloropropane 10 T	J [
10061-01-5cis-1,3-Dichloropropene 10 T	1
79-01-6Trichloroethene 10 T	11
124-48-1Dibromochloromethane	,
79-00-51,1,2-Trichloroethane 10 U	
71-43-2Benzene	
10061-02-6trans-1,3-Dichloropropene10	
75-25-2Bromoform 10	·
108-10-14-Methyl-2-Pentanone10	
591-78-62-Hexanone 10 L	
127-18-4Tetrachloroethene 10 U	
79-34-51,1,2,2-Tetrachloroethane 10	]
108-88-3Toluene 10 U	
108-90-7Chlorobenzene 10 U	
100-41-4Ethylbenzene 10 L	
100-42-5Styrene 10 U	
1330-20-7Xylene (total)10	

EPA	SAMPLE	NC
VE	BLKC86	1

IEMIAIIVEEI II	DENTITIED COMPOUNDS	VBLKC86
Lab Name: ACCREDITED LABS, INC.	Contract:	
Lab Code: 11109 Case No.: 8050 LMC	SAS No.: SDG No	·:
Matrix: (soil/water) SOIL	Lab Sample ID: V	BLKC86

Level: (low/med) LOW

Date Received: 01/15/98

Lab File ID: >C6577

% Moisture: not dec. 0

Date Analyzed: 01/15/98

GC Column: RTX-502 ID: 0.53 (mm)

Sample wt/vol: 5.0 (g/mL) G

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 1 CAS NUMBER COMPOUND NAME RTEST. CONC. Q ======= ______ Unknown Hydrocarbon 8.80 52 N 2. 3._ 7. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

	Lab Name: ACCREDITE	D LABS, INC.	Contract:	VBLKC87
~	Lab Code: 11109	Case No.: 8050 LMC	SAS No.: SDG No	o.:
	Matrix: (soil/water	) SOIL	Lab Sample ID: V	BLKC87
	Sample wt/vol:	5.0 (g/mL) G	Lab File ID: >	•C6595
*	Level: (low/med)	LOW	Date Received: 0	01/16/98
	% Moisture: not dec	. 0	Date Analyzed: 0	01/16/98
-	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume	:(uL)	Soil Aliquot Vol	ume:(uL)
447	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

74-87-3Chloromethane	10	U
74-83-9Bromomethane	10	U
75-01-4Vinyl Chloride	10	U
75-00-3Chloroethane	10	[]
75-09-2Methylene Chloride	5	J
67-64-1Acetone	10	- U
75-15-0Carbon Disulfide	10	
75-35-41,1-Dichloroethene	10	U
75-34-31,1-Dichloroethane	10	
540-59-01,2-Dichloroethene (total)	10	u
67-66-3Chloroform	10	n
107-06-21,2-Dichloroethane	10	
78-93-32-Butanone	10	
71-55-61,1,1-Trichloroethane	10	
56-23-5Carbon Tetrachloride	10	U
75-27-4Bromodichloromethane	10	U
78-87-51,2-Dichloropropane	10	U
10061-01-5cis-1,3-Dichloropropene	10	
79-01-6Trichloroethene	10	U
124-48-1Dibromochloromethane	10	U
79-00-51,1,2-Trichloroethane	10	$-\overline{U}$
71-43-2Benzene	10	<del>U</del>
10061-02-6trans-1,3-Dichloropropene	10	— <del>U</del> —
75-25-2Bromoform	10	U
108-10-14-Methyl-2-Pentanone	10	
591-78-62-Hexanone	10	$-\mathbf{u}$
127-18-4Tetrachloroethene	10	
79-34-51,1,2,2-Tetrachloroethane	10	U
108-88-3Toluene	10	U
108-90-7Chlorobenzene	10	u
100-41-4Ethylbenzene	10	U
100-41-4	. 10	
1330-20-7Xylene (total)	10	
TOO SO / WATELLE (COCUI)	10	

EPA	SAMPLE	ИО
 		T
VE	BLKC87	,

Lab Name: ACCREDITED	LABS, INC.	Contract:	
Lab Code: 11109	Case No.:8050 LME	SAS No.: SDG No	·.:
<pre>Matrix: (soil/water)</pre>	SOIL	Lab Sample ID: '	VBLKC87
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>C6595
Level: (low/med)	LOW	Date Received:	01/16/98
% Moisture: not dec.	0	Date Analyzed:	01/16/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	lume:(uL)
		CONCENSED A STANL UNITED .	

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	
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## VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

				APPVDII
	Lab Name: ACCREDITED	LABS, INC.	Contract:	-
*	Lab Code: 11109	Case No.: 8050 Luc	SAS No.: SDG No	·:
	Matrix: (soil/water)	SOIL	Lab Sample ID: V	BLKD11
	Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	D4303
*	Level: (low/med)	LOW	Date Received: 0	01/16/98
	% Moisture: not dec.	0	Date Analyzed: 0	01/16/98
-	GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor:	1.0
	Soil Extract Volume:	(uL)	Soil Aliquot Vol	ume:(uL)
-	CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	J
67-64-1		10	U
	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	[]
67-66-3	Chloroform	10	U
	1,2-Dichloroethane	10	U
78-93-3		10	U
71-55-6	1,1,1-Trichloroethane	10	U
	Carbon Tetrachloride	10	U
	Bromodichloromethane	10	U
	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
	Trichloroethene	10	U
	Dibromochloromethane	10	U
	1,1,2-Trichloroethane	10	U
71-43-2		10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2		10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
	Tetrachloroethene	10	U
	1,1,2,2-Tetrachloroethane	10	U
108-88-3		10	U
	Chlorobenzene	10	U
	Ethylbenzene	10	U
100-42-5		. 10	U
	Xylene (total)	10	U
	•		

EPA	SAMPLE	NO
<b>17</b> F	BLKD11	

Lab Name: ACCREDITED	LABS, INC.	Contract:	VBLKD11
Lab Code: 11109	Case No.: 8050 Lne	SAS No.: SDG N	0.:
Matrix: (soil/water)	SOIL	Lab Sample ID:	VBLKD11
Sample wt/vol:	5.0 (g/mL) G	Lab File ID:	>D4303
Level: (low/med)	LOW	Date Received:	01/16/98
% Moisture: not dec.	0	Date Analyzed:	01/16/98
GC Column: RTX-502	ID: 0.53 (mm)	Dilution Factor	: 1.0
Soil Extract Volume:	(uL)	Soil Aliquot Vo	lume:(uL)
		CONCENTRATION UNITS:	•

(ug/L or ug/Kg) UG/KG

Number TICs found: 1

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#### U.S. EPA - CLP

#### COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: AC	CREDITED_LABS_INC	Contract:	
Lab Code:	Case No.: 8050	SAS No.:	SDG No.:8039
30W No.: ILM	03.0	•	
	EPA Sample No. FIELD_B  12_SLUD  13_SLUD  13_SLUD  14(15-1  14(15-1  14(15-1  15(11-1  17(21-2  17(21-2  17(21-2  20(3-4)  25(3-4)	Lab Sample ID _9800388 _9800386 _9800387 _98003875 _9800389 _98003895 _9800392 _9800420 _98004205 _9800475 _9800470	
-			
/ere ICP int	erelement corrections ap	oplied ?	Yes/No YES
If yes	kground corrections appl - were raw data generate tion of background corre	ed before	Yes/No YES Yes/No NO
Comments:	cion of background corre		163/110 110_
conditions on ther than the thin this hard on floppy di	at this data package is f the contract, both technel conditions detailed a copy data package and in skette has been authorizes ignee, as verified by the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the conditions of the con	chnically and for com bove. Release of the the computer-readab eed by the Laboratory	pleteness, for e data contained le data submitted Manager or the
Signature:	-40	Name:	
Date:		Title:	<b>A.</b> .
			51

### 1 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

						1-		
Lab Name: ACCF	REDITED_LABS	_INC	Contract: _			.  _	17(21-22)	
Lab Code:	Ca	se No.: 80	50 'SAS No.	:		9	SDG No.: 803	39
Matrix (soil/w	ater): SOIL	<u>'</u>		L	ab Samp	le	ID: 9800420	)
Level (low/med	l): LOW_	_		D	ate Rec	eiv	red: 01/12/9	8
k Solids:	_95.	8						
Co	ncentration	Units (ug	/L or mg/kg dry	У	weight)	: M	IG/KG	
	CAS No.	Analyte	Concentration	C	Q	М	-	
	Cho no.	imaryce	Concentración	ľ	*		J	
	7429-90-5	Aluminum	1410	-	E*	P	-	
	7440-36-0		5.6	Ū	N	P	•	
	7440-38-2	Arsenic_	0.47			F	-	
	7440-39-3	Barium	5.8		EN*	P		
		Beryllium	0.11	В	N	P		
	7440-43-9	Cadmium_	0.81	U	N*	P		
	7440-70-2	Calcium_	296		E*_	P_		
	7440-47-3	Chromium_	5.4		N	P		
	7440-48-4	Cobalt	1.3			P_		
	7440-50-8	Copper	4.2		EN*	P_		
	7439-89-6	Iron	3450	_	E*	P		
	7439-92-1	Lead	2.4	_	N	F_		
	7439-95-4	Magnesium	298		E	P		
	7439-96-5	Manganese	57.9		EN*	P	•	
	7439-97-6	Mercury	0.10	Ū	N	CV	7	
	7440-02-0	Nickel	1.8	В	N*	P_		
		Potassium	211	В		P		
	7782-49-2	Selenium	0.41	U	*	F		
	7440-22-4	Silver	1.6	U	N*	P		
	7440-23-5	Sodium	148	В	*	P		
	7440-28-0	Thallium	0.29	U		F		
	7440-62-2	Vanadium	3.2	В	N	P		
	7440-66-6	Zinc	12.1		EN*	P_		
		Cyanide	0.03	B		c_		
Color Before:	BROWN	Clari	ty Before: OPA	່ ວູບາ	' E	Te	xture: ME	EDIU
Color After:	COLORLESS	Clari	ty After: CLE	AR_		Ar	tifacts:	

52 ILM03.0



### ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

#### Analytical Data Report

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

for

FEB 1 8 1998

L M 8 One Blue Hill Plaza Pearl River, NY 10965

For Hazardous Waste Section

Project: L A K A R I ( 650 - 272 )

Accredited Laboratories Case No.: 8069
Date Received: 01/13/98

Field ID	Laboratory Sample #
23 (2-3) 24 (23-24) 24 (2-3) 23 (18-19) 20 (12-13) 26 (19-20) 25 (15-16) 21 (3-4) 26 (12-13)	9800459 9800460 9800461 9800462 9800463 9800464 9800465 9800466
20(12-13) 22(19-20) 22(5-6) 25(3-4) 20(23-24) 21(22-23) 21(10-11) 20(9-10) 20(3-4)	9800467 9800468 9800469 9800470 9800471 9800472 9800473 9800474

Accredited Laboratories, Inc. New York Certification Number 11109. This data has been reviewed and accepted by:

Yun shen Lee, Ph.D. 2/1/98 Technical Director

(732) 541-2025

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# SAMPLE IDENTIFICATION AND ALL CASE # 8069 ANALYTICAL REQUIREMENT SUMMARY

Customer	Laboratory			alytical Re		nts	
Sample	Sample	*VOA	*BNA	*VOA	*Pest	*Metals	*Other
Code	Code	GC/MS	GC/MS	GC	PCBs		
		Method	Method	Method	Method		Cyanik
		#	#	#	#		
FLGP- 23 (23)	4800459	cip					
FLGP-24/23-24	9800460	CLP					
FIGP-24 (2-3)	9800461	CLP					
FLGP-23/18.19	9800f62	CUP					
FLGP-23 (18.19) FLGP-29 (12-13)	9800 463	CIP					
FLGP-26(19-20)	9800464	CEP					
PGP-25/15.16	9800465	CLP					
FIGS-21 (3-4)	9800 X66	CLP					
FL6P-26(12,B)	9800 461	CLP					
FLGP-22/19-20	19800168	CIP					
FLGP-22(5-6)	9800469	CLP					
FL6P-25(3-4)	9800470	CLP				CLP	CLP
FLGP-20(23-24)	9800471	CLP					•
FL6P-2/(222	9800472	CLP					
FLGP-21(10-11)	9800473	CLP		1			
FLGP-2019-10)	9800 474	019					
FLGP. 20 (3-4)	9800475	CUP				cy	C4P.
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							•
						·	

B-200 10/95

#### **NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

## SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA)

ANALYSES

' ALI CASE # 8069

		_		•	·
Laboratory		Date	Date Rec'd	, Date	Date
Sample ID	Matrix	Collected	at Lab	Extracted	Analyzed
9500459	poil	1/2/98	1/13/98		1/16/98
9800 160	poil	1/12/98	1/13/98		1/16/18
9800 461	soil	1/12/18	1/13/98		1/16/98
9800462	soil	1/12/98	1/13/98		1/16/98
9800463	soil	1/12/98	1/13/98		1/17/98
9800 464	pail	1/12/98	1/13/98		1/17/98
9800465	poil	1/12/98	1/13/98		1/17/98
9800466	soil	1/12/98	1/13/18		1/17/98
9800167	soil	1/12/98	1/12/98		1/17/98
980048	poil	1/12/98	1/13/18		1/17/98
9800469	poil	1/12/98	1/13/98		1/17/98
9800470	joil	1/12/98	1/13/98		1/17/98
9800471	poil	1/12/98	1/13/98		1118/98
9800472	poil	1/12/98	1/13/98		1/18/98
9800473	poil	1/12/18	1/13/98		1/18/98
9800 474	poil	1/12/98	1/13/98		1/19/28
9800475	soil	1/12/91	1/13/98		1/19/98
-					
		L1	1		

B-202 10/95

#### **NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

## SAMPLE PREPARATION AND ANALYSIS SUMMARY ALI CASE # 8069 -

Laboratory	į		Date Rec'd	Date
Sample ID	Matrix	Metals Requested	at Lab	Analyzed
9800470	isil	TAL cyanide TAL cyanide	1/13/98	1/29/98
9800×70	soil	cyanide	1/15/98	1/13/98
9800475	soil poil	OTAL	1/13/98	1/29/98
980475	poil	gyanide	1/13/98	1/13/198
		0	( (	·
			•	
				•

B-205 10/95

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	Laboratory Chronicles	2
	Chain-of-Custody Form	32
	Methodology Summary	38
	GC/MS Volatiles Data:	
	Sample Data Target Compound Results - Organic Analysis Data Sheet Tentatively Identified Compounds	40
4	Inorganic Data: Sample Data	80
	Results - Inorganic Analysis Data Sheet	

#### SDG NARRATIVE

Accredited Labs received 17 soil samples (Project: LAKA RI (650-272); ALI Case #8069) from LMS Engineers on 01/13/98 for the analyses of Volatile Organics, TAL Metals and Total Cyanide.

All analyses were performed within the required holding time.

All soil analyses were reported on a dry weight basis.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Yun-shen Lee,

Technical Director

ACCREDITED LABORATORIES, INC.

Time: 12:15:01

#### ORGANIC ANALYSIS LABORATORY CHRONICLE

#### HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client: L M S

Test Date Due: 01/26/98

Operations Case Date Due: 01/23/98

Client Project Name: L A K A R I (650 - 272)

Date Sampled:01/12/98 Date Received:01/13/98 Report Package: Other

Test: VO
Test Description: Volatile Organics (VO)

QC#:_____

	В	y Method:							m T C
SAMPLE	IDENTI	FICATION	M	EXT	RACTION		ANA	LYSIS	TIC FLAG
Field#	Case#	Sample#	x =	Date	Time	Init	Date	Time	Init
23 (2-3) 24 (23-24) 24 (2-3) 23 (18-19) 20 (12-13) 26 (19-20) 25 (15-16) 21 (3-4) 26 (12-13) 22 (19-20) 22 (5-6) 25 (3-4)	8069 8069 8069 8069 8069 8069 8069 8069	9800459 9800460 9800461 9800462 9800463 9800465 9800466 9800467 9800468 9800469					01/16/98 01/16/98 01/16/98 01/17/98 01/17/98 01/17/98 01/17/98 01/17/98 01/17/98 01/17/98		
20(23-24) 21(22-23) 21(10-11) 20(9-10) 20(3-4)	8069 8069 8069	9800471 9800472 9800473 9800474 9800475	\$ 5 5 5 5 5 5				01/18/98 01/18/98 01/18/98 01/19/98 01/19/98		

Reviewed by:

Date:

Abreviations: Sample Matrix:

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge

X=Other

RPT:Report01

Reviewed by: _________

### ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 12:14: 7

RPT:Report02

Fie Cl: Dat Tes Pro Mt:	ient: L M S eld#: 25(3- ient Sample ie Sampled: st: TAL st Descript oject Name: c:A=Aqueous nple Commen	4) Descri 01/12/ ion: To L A K :S=Soil	ption: 98 Date tal Anal	C e Rec lyte ( 650	ase#: eived: List (7	Operati 8069 01/13/9 (AL) )	Tes ons Cas Sar 8 Repo	ort Pack QC# le Water	Due: 01 Due: 01 9800470 age: Ot : <u>\\</u>	./26/98' ./23/98 .her
ву 1	Method:					PREPAR	ATION		NALYSIS	}
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF 4
s	Aluminum	Al				1/0/58	4	2/1/18	-m	<u>833-21</u>
s s	Antimony Arsenic	Sb As		***************************************				2/2/18		<u>\$33-20</u>
s	Barium	Ba	-					2/4/48	W	833-22
s	Beryllium	Ве	••••		-			2/1/48		83320
s	Cadmium	Cd								
s	Calcium	Ca		***************************************				2/3/18		833-2/
s	Chromium	Cr						2/2/98		<u> {33.1</u> 0
s	Cobalt	Co		***************************************						<u></u>
S	Copper	Cu								
S	Iron	Fe	***************************************					2/3/93		833-21
s	Lead	Pb								
s	Magnesium	Mg	***************************************					2/4/98	W	837-22
S	Manganese	Mn						2/4/48	<u>_w</u>	833-W
			-						***************************************	
— Oua	lity contro	ol Repor	t Numbe	r(s):	 7X980				3	

Date:___

#### ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 12:14:32

HC 01/23 OTHER=NY	-ASP A	CLP METHOD:	ΔO	95-1,	Cn	355.2	7	DAY	HOLD	TIME
-------------------	--------	-------------	----	-------	----	-------	---	-----	------	------

Test Date Due: 01/26/98 Operations Case Date Due: 01/23/98 Client: L M S

Case#: 8069 Field#: 25(3-4) Sample#: 9800470

Client Sample Description:

Date Sampled: 01/12/98 Date Received: 01/13/98 Report Package: Other

QC#: 480012 Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I (650 - 272)
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:						LA PREPAR	BORATORY	CHRON]	;	
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Нg		·····						-
s	Nickel	Ni				1/30/98	-7/	2/3/43		\$33-21
s	Potassium	K		***************************************	****	1		2/4/98		433-27
s	Selenium	Se		·						
s	Silver	Ag			***			2/4/58	-W_	833-22
S	Sodium	Na			·			2/2/48		833-20
S	Thallium	Tl		-						***************************************
s	Vanadium	V						2/48		\$33-2°
s	Zinc	Zn								

Quality control Report Number(s): QC980750B	4
Reviewed by: $\mu$ Date: $\frac{\partial}{\partial h}$	RPT:Report02

### ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 12:14:~

#### HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client: L M S

Test Date Due: 01/26/98_

Operations Case Date Due: 01/23/98

Field#: 25(3-4) Case#: 8069 Sample#: 9800470

Client Sample Description:

Date Sampled: 01/12/98 Date Received: 01/13/98 Report Package: Other

Test: TAL QC#: 98000

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I (650 - 272)

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

Sample Comments:

ву м	fethod:					LA PREPAR	BORATORY ATION		ICLE NALYSIS	<b>*</b>
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	Aluminum	Al				1/0/58	-d			
S	Antimony	Sb								
s	Arsenic	As						7/4	M_	<u> </u>
s	Barium	Ba								<del></del>
s	Beryllium	Ве								
s	Cadmium	Cd						<u></u>	¥	
s	Calcium	Ca								
s	Chromium	Cr								
s	Cobalt	Co								<b>_</b>
s	Copper	Cu								
s	Iron	Fe								
s	Lead	Pb						8/4	m	817-33
s	Magnesium	Mg								
s	Manganese	Mn		w						
	- CLEAN AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATION AND ALLEGATIO	11000								
										7
Qua	lity control	Repor	t Numbe	r(s):	QC980	)180R			5	
Revi	ewed by:				Date:_			1	RPT:Rep	ort02

### ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 12:14:3

6

Ву 1	Method:					PREPAR			ICLE NALYSIS	
MTX	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Hg								
s	Nickel	Ni				1/30/58	-VA			
s	Potassium	K								
s	Selenium	Se			<u></u>			3/4	pr	817
s	Silver	Ag								
s	Sodium	Na	****							-
s	Thallium	Tl						2/5	M	81-
s	Vanadium	v		***************************************	·					
S	Zinc	Zn				1				

Reviewed by: Date:____ RPT:Report02

Quality control Report Number(s): QC980160B

7

RPT:Report02

Da	ce. 01/13/98						ORY CHRON		rrme:	12:14:
HC 0	1/23 OTHER=	NY-ASP	A CLP	METH	OD: VO	95-1, 0	n 355.2	7 DAY	HOLD 1	IME
Cl	ient: L M S					Operati	Test ons Case	Date	Due: 01	/26/98
	eld#: 25(3-4		ntione	C	ase#:	8069	Samp	e bate ole#:	9800470	./23/98 )
Da	ient Sample   te Sampled:	01/12/	98 Date	e Rec	eived:	01/13/9	8 Repor	t Pack	age: Ot	her
	st: TAL	M-	4-1 3	7 <b>.</b>	T &	DXT \		QC#	: 98001	<u> </u>
Pre	st Descripti oject Name: : x:A=Aqueous:	LAK	ARI	( 650	- 272	)	-Potable	Wator	• CC1 • • A	~~ · V0
Sai	mple Comment	s:	.0-011.1	K-301	IU.F-F.	ricers.r	-FOCADIE	water	•G-51u0	ige:x=0
ву 1	Method:					LA PREPAR			ICLE NALYSIS	·
MTX	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	Нg				1/24/48	MI	. /	W	
s	Nickel	Ni				1/30/98	-14			
s	Potassium	K				<del></del>				
s	Selenium	Se								
s	Silver	Ag			<b>4</b> 011					
S	Sodium	Na	***************************************							
S	Thallium	Tl								
s	Vanadium	V								
S	Zinc	Zn						***************************************		-
			-							

____ Date:____*}//6* 

Quality control Report Number(s): QC980/30B

Reviewed by: _____

#### ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

### HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

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~ _	1	C11	L	٠	u	1.1	-

Test Date Due: 01/26/98

Time: 12:14:33

Operations Case Date Due: 01/23/98 Case#:

8069 Sample#: 9800475

Field#: 20(3-4) Client Sample Description:

Date Sampled: 01/12/98 Date Received: 01/13/98 Report Package: Other

480019 QC#: Test: TAL

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I (650 - 272)

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth Sample Comments:

	Method:	·				PREPAR		======	ALYSIS	====
MTX ===	ELEMENT	SYM	RESULT	MDL ====	UNITS	DATE	INIT	DATE	INIT	REI
s	Aluminum	Al		***************************************	-	1/30/98		2/3/98	_W	833
s	Antimony	Sb				<del></del>		2/4/48		833
s	Arsenic	As			***************************************					
s	Barium	Ba						2/4/98	$\mathcal{M}$	<u> 83</u>
s	Beryllium	Ве						2/2/98		83
s	Cadmium	Cd								
s	Calcium	Ca			***************************************			2/3/58		833
s	Chromium	Cr						2/2/98		43)
s	Cobalt	Co	**************************************		***************************************					4
s	Copper	Cu								
s	Iron	Fe	****					13/58		833
s	Lead	Pb		***************************************				***************************************		
S	Magnesium	Mg						2/4/48	M	833
s	Manganese	Mn					l	2/4/93	of	833

ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE Time: 12:14:_7

EC 0	1/23	OTHER=N	Y-ASP	A CLP	METH	OD: VO	95-1,	Cn 355	.2 7 DA	K HOLD 1	TIME
Fie Cl:	eld#: ient S	L M S 20(3-4) Sample D npled: 0	escrip			ase#: eived:	8069	ions C S	Pest Date Case Date Cample#:	Due: 01 9800475	1/23/98 5
Tes Pro Mts	oject x:A=Aq	scriptio Name: L	A K A	ARI	( 650	<b>-</b> 272	) ·	P=Pota	QC; ble Water		lge:X=0
By I	Method	<b>1:</b>						ABORAT RATION	ORY CHRO	NICLE ANALYSIS	5
MTX		EMENT	SYM	RESULT	MDL	UNITS	DATE	INIT		INIT	REF
s	Mercu	ıry	Hg						1		
s	Nicke	el	Ni				10/9	3 1	<u> </u>	_m	833-2
s	Potas	ssium	K			-	1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		833-22
s	Seler	nium	Se						11,		
s	Silve	er	Ag		***************************************				2/4/53	_ MP	833-22
S	Sodi	ım	Na						2/4/98		833-56
S	Thall	Lium	Tl						2 /m		
S	Vanad	lium	v						- 2/2/4g	_ M	233-20
S	Zinc		Zn						/_		
  Oua		control	Report	t Numbe		  	==== (0150R			<u> </u>	
							CIOCIT			/	
kev1	ewea 1	by:				Date:_				RPT:Rep	JOE CU2

### ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 12:14:3

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

	 	_	 _
	 	 	 _
•			

Client: L M S

Test Date Due: 01/26/98 Operations Case Date Due: 01/23/98

Client Sample Description:

Date Sampled: 01/12/98 Date Received: 01/13/98 Report Package: Other

Test: TAL QC#: [X00]2

Test Description: Total Analyte List (TAL)
Project Name: L A K A R I (650 - 272)

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Otl

Sample Comments:

===	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s .	======= Aluminum	 Al				1/30/98				
s .	Antimony	Sb								
s .	Arsenic	As						7/4	M	817
s	Barium	Ba								
s	Beryllium	Ве								
s	Cadmium	Cd							·	
s	Calcium	Ca								
s	Chromium	Cr								
s	Cobalt	Co						***************************************		
S	Copper	Cu								
s	Iron	Fe			<del></del>			3/4	<u> </u>	81-
s :	Lead	Pb								
s i	Magnesium	Mg								
S	Manganese	Mn							***	

### ACCREDITED LABORATORIES, INC.

Time: 12:14:

#

RPT:Report02

INORGANIC ANALYSIS LABORATORY CHRONICLE HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME Client: L M S Test Date Due: 01/26/98 Operations Case Date Due: 01/23/98 Field#: 20(3-4) Case#: 8069 Sample#: 9800475 Client Sample Description: Date Sampled: 01/12/98 Date Received: 01/13/98 Report Package: Other QC#: 980017 Test: TAL Test Description: Total Analyte List (TAL) Project Name: L A K A R I (650 - 272) Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Ot) Sample Comments: LABORATORY CHRONICLE By Method: PREPARATION **ANALYSIS** SYM RESULT MDL UNITS DATE MTX ELEMENT INIT DATE INIT REF ____ ____ Mercury Hq Nickel Ni Potassium S K Selenium Se S S Silver Ag Sodium S Na Thallium T1 S Vanadium V S S Zinc Zn

Date:____

Quality control Report Number(s): (20801801)

Reviewed by:_____

## Date: 01/13/98 ACCREDITED LABORATORIES, INC. INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 12:14:4

Pro Mt	st: TAL st Descripti oject Name: x:A=Aqueous: mple Comment	L A K S=Soil	ARI	( 650	- 272	)	=Potable	QC#:		0 }  ge:X=
	Method:					LA PREPAR	BORATORY		CLE NALYSIS	
MTX	ELEMENT	SYM	RESULT		UNITS	DATE	INIT	DATE	INIT	REF
s	Mercury	 Нд				1/4/98	$\mathcal{N}_{I}$	1	W	
s	Nickel	Ni				150/98	-			-
s	Potassium	K	***************************************	A						
s	Selenium	Se						4		
s	Silver	Ag						***************************************		
s	Sodium	Na	****					-		
s	Thallium	Tl								
s	Vanadium	v						-		
s	Zinc	Zn						***************************************		-

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:20:06

Page: 12

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S Sample#: 9800470

Case#: 8069

Client Sample Description: Client Project Name: L A K A R I ( 650 - 272 ) Operations Case Due Date: 01/23/98 Client Field Number: 25(3-4)

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

rnase	Tes		ANALY	ANALYTICAL DATA			SAMPLE PREP		SAMPLE ANALYSIS		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
s	% SOLIDS	01/26/98		***************************************						***************************************	
S	CN	01/26/98		0.53	mg/k	01/13/98	<u>En</u>	01/13/98	IM	641-18	

Reviewed	Ву:		Date:	
----------	-----	--	-------	--

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:20:43

Page: 17

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800475

Client Sample Description:

Case#: 8069

Client Project Name: L A K A R I (650 - 272)

Operations Case Due Date: 01/23/98

Client Field Number: 20(3-4)

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases.

Inda	Test		ANALY	ANALYTICAL DATA			E PREP	SAMPLE AN		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98			***************************************			•		***************************************
S	CN	01/26/98	ACCOMMUNICATION	0.55	mylk	01/13/48	<u>Jan</u>	01/13/48	<u> 25-</u>	841-18

Reviewed	By:	Date:	
	-1.		

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:15:02

Page: 1

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800459

Client Sample Description:

Case#: 8069

Client Project Name: L A K A R I (650 - 272) Client Field Number: 23(2-3)

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANAL	ANALYTICAL DATA			PREP	SAMPLE AN	ALYSIS		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
S	% SOLIDS	01/26/98	84.9	0,10	<u>/</u>	1/14/98	The	4/15/98	Du	3/32	

Reviewed By:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc.
General Chemistry Laboratory Chronicle

Time: 12:15:03

Page: 2

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800460

Client Sample Description:

Case#: 8069
Operations Case Due Date: 01/23/98

Client Project Name: L A K A R I (650 - 272) Client Field Number: 24(23-24)

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE AN		
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	94.2	0,10	2	1/14/98	M	1/15/98	- M	3/32

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:15:09

Page: 3

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800461

Client Sample Description:

Case#: 8069

Client Project Name: L A K A R I (650 - 272)

Operations Case Due Date: 01/23/98

Client Field Number: 24(2-3)

Date Sampled: 01/12/98 Date Received: 01/13/98

Report Package: Other

Phases:

2 4.5.2		mo a t	ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	85.3	0.10	<u> </u>	1/14/98	Th	1/15/51	Du	3132

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

_1

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 12:15:16

RPT:Report06

Page:

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650 - 272)

Client Field Number: 23(18-19)

Sample#: 9800462

Case#: 8069

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLE PREP		SAMPLE AN		
tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	88.8	0.10	<u>/</u>	1/14/98	- Mi	1/15/68	Ju	3132

Reviewed By:

Matrix:A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 12:15:24

Page: 5

OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME HC 01/23

Client Name: L M S

Sample#: 9800463

Client Sample Description:

Client Field Number: 20(12-13)

Case#: 8069

Client Project Name: L A K A R I (650 - 272)

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		m	ANALY	TICAL D	ATA	SAMPLE	E PREP	SAMPLE ANA	ALYSIS	
tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/26/98	91.5	0110	<u>/</u>	4/14/58	- Mi	1/15/98	The	3/32

Reviewed By:

fatrix:A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:15:31

Page: 6

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650 - 272)

Client Field Number: 26(19-20)

Sample#: 9800464

Case#: 8069

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANALY	TICAL DA	ATA	SAMPLE	PREP	SAMPLE AND	ALYSIS	
εx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
3	% SOLIDS	01/26/98	97.5	010	<u>/</u>	1/14/98_	The	4/15/98	The	3/32

Reviewed By:

fatrix:A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:15:38

Page: 7

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800465

Client Sample Description:

Case#: 8069

Client Project Name: L A K A R I (650 - 272)
Client Field Number: 25(15-16)

Operations Case Due Date: 01/23/98
Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANALY	TICAL DA	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	86.1	0.10		1/14/98	v Ph	1/15/91	" Dh	3/33

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:15:46

Page: 8

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650 - 272)

Client Field Number: 21(3-4)

Sample#: 9800466

Case#: 8069

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLI	E PREP	SAMPLE AN	ALYSIS	
itx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	96.4	0.10	<u> </u>	4/14/98	e Pu	1/15/98	Du	3133

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

## Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:15:54

Page: 9

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800467

Client Sample Description:

Client Field Number: 26(12-13)

Case#: 8069

Client Project Name: L A K A R I (650 - 272)

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/26/98	87.2	040	1	1/14/98	Th	4/15/98	Du	3/13

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 12:19:33

Page: 10

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800468

Client Sample Description:

Case#: 8069

Client Project Name: L A K A R I (650 - 272)

Client Field Number: 22(19-20)

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
(tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
S	% SOLIDS	01/26/98	95.0	0,10	<u>×</u> .	4/4/98	Ju	1/15/2	y pr	3/33

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

### Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:19:44

Page: 11

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650 - 272)

Client Field Number: 22(5-6)

Sample#: 9800469

Case#: 8069

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANALY	TICAL DA	ATA	SAMPLI	E PREP	SAMPLE AN	ALYSIS	
tx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	<i>\$8.0</i>	0,10	<u>/</u>	1/14/98	Th	4/15/98	Thy	3/53

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 12:20:06

Page: 12

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800470

Client Sample Description:

Client Field Number: 25(3-4)

Case#: 8069

Client Project Name: L A K A R I (650 - 272)

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98 Date Received: 01/13/98

Report Package: Other

Phases:

Filase	<b>5</b>	W	ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
1tx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	93.6	0.10	<u> </u>	4/3/8V .	Du	4/14/91	pm	3/33
S	СИ	01/26/98	<u></u>	***************************************		<i></i> .				

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

## Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:20:14

Page: 13

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800471

Client Sample Description:

Case#: 8069

Client Project Name: L A K A R I (650 - 272)

Operations Case Due Date: 01/23/98

Client Field Number: 20(23-24)

Date Sampled: 01/12/98 Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANAL	TICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	81.8	0.10		1/14/62	m	1/15/98	- Dr	3/37

Reviewed By:

Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 12:20:21

Page: 14

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Client Sample Description:

Client Project Name: L A K A R I (650 - 272)

Client Field Number: 21(22-23)

Sample#: 9800472 Case#: 8069

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

Inase		most.	ANALY	TICAL D	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS		
Mtx	Analytes	Test Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF	
S	% SOLIDS	01/26/98	88.5	0,10	<u> </u>	4/14/88	m	- f/s/st	- Du	3/37	

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle Time: 12:20:28

RPT:Report06

Page: 15

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800473

Client Sample Description:

Case#: 8069

Client Project Name: L A K A R I (650 - 272)

Operations Case Due Date: 01/23/98

Client Field Number: 21(10-11)

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPLI	E PREP	SAMPLE AN	ALYSIS	
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	88.2	0.10	<u>/</u>	1/14/8	De	4/15/18	In	3/32

Reviewed By:

Date: _/-/5- 98

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:20:36

Page: 16

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800474

Case#: 8069 Operations Case Due Date: 01/23/98

Client Sample Description: Client Project Name: L A K A R I ( 650 - 272 ) Client Field Number: 20(9-10)

Date Sampled: 01/12/98

Date Received: 01/13/98

Report Package: Other

Phases:

		Test	ANALY	TICAL D	ATA	SAMPL	E PREP	SAMPLE AN	ALYSIS	
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	96.5	0,10		1/1/8	Th	1/1/81	n	3/37

Reviewed By: Date:

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 12:20:43

Page: 17

HC 01/23 OTHER=NY-ASP A CLP METHOD: VO 95-1, Cn 355.2 7 DAY HOLD TIME

Client Name: L M S

Sample#: 9800475

Client Sample Description:

Case#: 8069

Client Project Name: L A K A R I (650 - 272)
Client Field Number: 20(3-4)

Operations Case Due Date: 01/23/98

Date Sampled: 01/12/98 Date Received: 01/13/98

Report Package: Other

Phases:

11100	- L	Test	ANAL	YTICAL DA	ATA	SAMPLE	PREP	SAMPLE AN	ALYSIS	
Mtx	Analytes	Due Date	RESULTS	MDL	UNITS	DATE	INIT	DATE	INIT	REF
s	% SOLIDS	01/26/98	90.1	0,10	<u>//.</u>	1/14/58	Du	[[sfar	an	3/33
s	CN	01/26/98	***************************************					//		

Matrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other: RPT:Report06

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# A

COMMENTS

### ACCREDITED LABORATORIES, INC.

**CHAIN OF CUSTODY FORM** 

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

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PAGE		_OF_	Q

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ALI CASE#

P.O.#

CUENT	LMS ENGIN	rexs	PROJECT	LAKA	RI	(650-272°
ADDRESS		11 Plaza	CONTACT	Maria	Hointz	
CITY	Pearl River		PHONE	914 - 736	5-8300	י י
STATE	NY	ZIP 10965	FAX	914-735	- 7466	, 2

ALI SAMPLE #	, FIELD ID	*C **N	DATE / TIME SAMPLED	SAMPLE DESCRIPTION +	ANALYSIS
9300459	FLEF-23(2-3)	13	1-12-18/1027	Geoprobe Sails	VOCs
	FLGP-24(23-24)	15	1-12-18/1120		Vocs
9300461	FLGP-24 (2-3)	15	1-12-98/1110	(1	VOCs
9300462	FLGP-23 (18-19)	1 5	1-12-48/1045	<i>II</i>	VOCs
9800463	FLGP-20(12-13)	15	1-12-98/0850		VOCS
	FLGP-26(19-20)	13	1-12-98/1220	11	Vocs
T 9800465	FLGP-25 (15-16)	15	1-12-98/145	ľ	VOCs
9300466	FLGP-21(3-4)	15	1-12-98/0915	(1	VoCs
9300467	FLOP-26 (12-13)	15	1-12-18/1215	<i>i</i> 1	Vocs
	FLGP-22 (19-20)		1-12-98/1010	4	VOCs
	FLGP-22 (5-6)		1-12-18/053	l,	VOCS
	FLGP-25 (3-4)		1-12-98 / 1140	//	Vocs
	FLGP-20/23 24)		1-12-18/0905	//	VOCs
	FLGP-21 (21-23)	15	1-12-98 0135	<u>"</u>	VOCS
	FLGP-21 (10-11)		1-12-98/0920	''	VOCs
9800474	FLGP-20 (9-10)	15	1-12-98 /0845	Marka Carrier and a state of the contraction.	VOCS
**M = MATRIX	A=AQUEOUS :	S=SOIL	G=SLUDGE	P=POTABLE WATER 0=0	il F=Filter K=Solid X=Other

9800	414 FLGP-20	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	1-12-98 /0845	- 11 - 5 5 5 5 5 5 7 7 5 5 7 5	<u>  VO</u>	Cs	
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*C = NO	CONTAINERS	TURNAROUN	D:			(If Blan	k, Std. 3 weeks)
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Time to the second					ALI	QUOTE#	

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### ACCREDITED LABORATORIES, INC.

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

### CHAIN OF CUSTODY FOR !-

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CUENT	LMS ENZIN	aers
ADDRESS		11 Plaza
CITY	Pearl River	
STATE	1/4	ZIP 10965

PROJECT	LAKA RI (650-272)	
CONTACT	Maria Heintz	-
PHONE	914-735-8300	
FAX	914-735-7466	

P.O.#

ALI SAMPLE#	signaFIELD ID (1.7)	۰c,	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION:	ANALYSIS :
9800475	FLGP-20(3-4)	1	5	1-12-98/0830	Geoprobe Soils	VOCS
9800470	FLGP-25 (3-4) FLGP-20 (3-4)	1	2	1-12-98/1142	/ 'i/	TAL Metals / CN
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1-10-98 * Sander 50	1406 ×	Stipped via Fed E	x NAntons	Him	Judanel 1	ALT.	1/13/9	8 9:30 <b>"</b>
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COMMENTS					ALI CASE	<b>#</b> :	0	8069

## Accredited Laboratories, Inc. INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field	Laboratory: Accredited Laboratories, Inc. Location: Carteret, N.J.
Seal on Sample Shuttle & Accepting Responsibility for Sample	Name: MANTONELL Title: SRO
Field Sample Seal No	Date Broken:// Military Time Seal Broken
Case No. 8069	Check if No Seal on Sample Shuttle.
Tiple # Tabova	town # Wort Name Date Campled Date Descrived

Field #	Laboratory #	Test Name	Date Sampled	Date Received
23 (2-3) 24 (23-24) 24 (2-3) 23 (18-19) 20 (12-13) 26 (19-20)	9800459 9800460 9800461 9800462 9800463 9800464	VO VO VO VO VO	01/12/98 01/12/98 01/12/98 01/12/98 01/12/98 01/12/98	01/13/98 01/13/98 01/13/98 01/13/98 01/13/98 01/13/98
25(15-16) 21(3-4) 26(12-13) 22(19-20) 22(5-6) 25(3-4) 20(23-24) 21(22-23) 21(10-11) 20(9-10) 20(3-4)	9800465 9800466 9800467 9800468 9800469 9800470 9800471 9800472 9800473 9800474	VO VO VO VO VO VO VO VO VO	01/12/98 01/12/98 01/12/98 01/12/98 01/12/98 01/12/98 01/12/98 01/12/98 01/12/98 01/12/98 01/12/98	01/13/98 01/13/98 01/13/98 01/13/98 01/13/98 01/13/98 01/13/98 01/13/98 01/13/98 01/13/98 01/13/98

DATE	TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
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		Printed Name	Printed Name	9
		Signature	Signature	
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		Printed Name	Printed Name	
		Signature	Signature	34

FORM:

## Accredited Laboratories, Inc. INTERNAL CHAIN OF CUSTODY

Seal on	Sample	son Breaking Shuttle & / for Sample	Accepting	N. ANTONEL	-		_
Field \$	ample Se	eal No	pura 0	ate Broken://	Milita	ry Time Seal	Broken
Case No		8069	<	Check if No Seal on Sa	ample Shutt	le.	
	Field	#	Laboratory #	Test Name	Date S	Sampled	Date Received
	(3-4) (3-4)		9800470 9800475	TAL TAL		2/98 2/98	01/13/98 01/13/98
DATE	TIME	RELINGUISE	ED BY	RECEIVED BY		PUR	POSE OF CHANGE OF CUSTOD
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1/20	! !	1-///		Signature -		Dualye's Storage	
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	† 	Signature		Signature		<b>-</b>	

FORM: 291COC

## Accredited Laboratories, Inc. INTERNAL CHAIN OF CUSTODY

Seal on	Sample	on Breaking Shuttle & A for Sample		N. ANTON	•		
Field S	ample Se	al No.	ane	Date Broken://_	Military	/Time Seal	Broken
Case No		8069		Check if No Seal on	Sample Shuttle		-
	Field	#	Laboratory #	Test Name	Date Sa	ampled	Date Received
	(3-4) (3-4)		9800470 9800475	CN CN	01/12 01/12		01/13/98 01/13/98
DATE	TIME	RELINQUISH	ED BY	RECEIVED BY		PUR	POSE OF CHANGE OF CUSTODY
01/13/96	<del> </del>	Printed Ne	ANTONELLI	Printed Name Edda M	lartinez	<u> </u>	maly s's
	<b>[</b> ]	Signature	Mulal	Printed Name ANTON-LL		<del> </del> 	
C./13/4¥	} 	Printed Na	me Eddy Martinez			Storage	
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### Accredited Laboratories, Inc.

### INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Laborator Seal on Sample Shuttle & Accepting Responsibility for Sample Name:				N. ANTONELLI Title: SCO			***************************************	
Field S	ample Se	al No	nuc Di	ate Broken://_	Military	/ Time Seal	Broken	
Case No		8069		Check if No Seal on Sa	mple Shuttle			
	Field	#	Laboratory #	Test Name	Date Sa	ampled	Date Re	ceived
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FORM: 291COC

#### METHODOLOGY SUMMARY

Volatile Organics: EPA-CLP-SOW (Document Number OLM03.1)

### Soil/Sediment Samples

#### a. Low level:

An inert gas is purged through a mixture containing 5g of sample and reagent water at an elevated temperature. The volatile organics are efficiently transferred from aqueous phase to the vapor phase and then trapped onto a sorbent column. When purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the volatile organics from the sorbent column to a GC column. The GC is temperature programmed to separate the volatile organics which are then detected and quantified with a mass spectrometer.

TAL Metals: EPA-CLP-SOW (Document Number ILM04.0)

### Soil/Sediment_Samples

A 1qm portion of sample is digested with nitric acid and hydrogen peroxide. The digestate is then refluxed with either nitric acid or hydrochloric acid. Diluted hydrochloric acid is used as the final reflux acid for the Furnace AA analysis of Sb, the Flame AA or ICP analysis of Al, Sb, Ba, Be, Ca, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, K, Ag, Na, Tl, V and Zn. Nitric acid is employed as the final reflux acid for the Furnace AA analysis of As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, Se, Ag, Tl, V and Zn. For the graphite furnace analysis, an aliquot of the digestate is spiked with modifier solution and is placed into the graphite furnace. aliquot is then slowly evaporated to dryness, charred and atomized. The absorption of the EDL radiation during atomization is proportional to the element concentration. For the flame AA, the digestate is aspirated and atomized in a flame. The absorption of the HCL radiation during atomization is proportional to the element concentration. The basis of ICAP method is the measurement of atomic emission by an optical spectroscope technique. The emission spectra are dispersed by a grating spectrometer and the intensities of the line are measured and processed by a computer system. mercury analysis, a 0.2gm portion of sample is digested with potassium permanganate and persulfate at acidic condition in a water bath at 95°C. The mercury in the sample is reduced to the elemental state and detected by the cold vapor technique in a closed system.

Total Cyanide: EPA-CLP-SOW (Document Number ILM03.0)

### Soil/Sediment_Samples

A 1-5gm portion of sample mixed with reagent water is placed into a cyanide distillation appartus. Hydrogen cyanide gas is liberated from the aqueous solution upon addition of sulfuric acid, magnesium chloride solution and heat. The hydrogen cyanide gas is trapped in a scrubber containing sodium hydroxide solution. The color is formed when the reagents of chloramine-T and pyridine-barbifuric

acid mixture is added into scrubber solution. The intensity of the color is measured spectrophotometrically and is proportional to the concentration of cyanide in the solution.

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA	SAMPLE	NC

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Tall Manual ACCREDITIED LARC INC	Contract:
Lab Name: ACCREDITED LABS, INC.	
Lab Code: 11109 Case No.: 86	AD SAS NO.: SDG No.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9800459
Sample wt/vol: 5.0 (g/mL)	G Lab File ID: >D4305
Level: (low/med) LOW	Date Received: 01/13/98
% Moisture: not dec. 15	Date Analyzed: 01/16/98
GC Column: RTX-502 ID: 0.53 (r	nm) Dilution Factor: 1.0
Soil Extract Volume: (uL)	Soil Aliquot Volume: (uL)

COMPOUND

CAS NO.

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

74-87-3-----Chloromethane 12 U 12 U 74-83-9-----Bromomethane 75-01-4-----Vinyl Chloride 12 U 75-00-3-----Chloroethane 12 U 75-09-2----Methylene Chloride 12 U 12 U 67-64-1-----Acetone U 75-15-0-----Carbon Disulfide 12 75-35-4----1,1-Dichloroethene 12 U 75-34-3-----1,1-Dichloroethane 12 U 540-59-0----1,2-Dichloroethene (total) U 12 Ū 12 67-66-3-----Chloroform Ū 107-06-2----1,2-Dichloroethane 12 12 U 78-93-3-----2-Butanone 71-55-6----1,1,1-Trichloroethane 12 U 56-23-5-----Carbon Tetrachloride 12 U 12 U 75-27-4-----Bromodichloromethane 78-87-5----1,2-Dichloropropane 12 U 10061-01-5----cis-1,3-Dichloropropene 12 U U 79-01-6----Trichloroethene 12 12 Ū 124-48-1-----Dibromochloromethane  $79-00-5----1,1,2-Trichloroethan\overline{e}$ 12 IJ 71-43-2----Benzene 12 H 10061-02-6----trans-1,3-Dichloropropene 12 11 75-25-2----Bromoform 12 U 108-10-1----4-Methyl-2-Pentanone 12 U 591-78-6----2-Hexanone 12 U 127-18-4----Tetrachloroethene U 12 79-34-5----1,1,2,2-Tetrachloroethane 12 U 108-88-3-----Toluene 12 U 108-90-7-----Chlorobenzene 12 U 100-41-4----Ethylbenzene 12 U 100-42-5----Styrene 12 U 1330-20-7------Xylene (total)12

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### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	EPA	SI	MPI	ĿΕ	NC	
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		_				

Lab Name:	ACCREDITE	D LABS, INC.	Contract:		23-23
Lab Code:	11109	8069 LHC Case No.: -8690	SAS No.:	SDG 1	lo.:
Matrix: (s	soil/water)	SOIL	Lab Sampl	e ID:	9800459

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4305

Level: (low/med) LOW Date Received: 01/13/98

% Moisture: not dec. 15 Date Analyzed: 01/16/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

1. 76131 Ethane, 1,1,2-trichloro-1,2, 9.99 34 N Unknown Hydrocarbon 29.40 35 N N	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q ====
5. 6. 7. 8. 9. 0. 1. 2. 3. 4. 5. 6. 7. 8. 9. 0. 1. 1. 2. 3. 4. 5. 6. 7. 8. 9. 0. 1. 1. 2. 3. 4. 5. 6. 7. 8. 9. 0. 1. 2. 3. 4. 9. 0. 1. 2. 3. 4. 9. 0. 1. 2. 3. 4. 9. 0. 1. 2. 3. 4. 9. 0. 1. 2. 3. 4. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	2. 3. 4.	Ethane, 1,1,2-trichloro-1,2, Unknown Hydrocarbon	9.99 29.40	34 35	N N
9.	5. 6. 7.				
1.	9.				
5. 6. 7. 7. 8. 9. 9. 10. 21. 22. 23. 44.	11. 12.				
8	15.		4		
20. 21. 22. 23. 24. 25.	18.				
44. 25. 26. 27.	20		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
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	26. 27.				

## VOLATILE ORGANICS ANALYSIS DATA SHEET

F	EPA	SAMPLE	NO.

Lab Name: ACCREDITED LABS, INC. Contract:		242324
8069 LMC		HP
Lab Code: 11109 Case No.: 8690 SAS No.:	SDG No	o.:
Matrix: (soil/water) SOIL	Lab Sample ID: 9	9800460
Sample wt/vol: 5.0 (g/mL) G	Lab File ID: >	D4306
Level: (low/med) LOW	Date Received: 0	01/13/98
% Moisture: not dec. 6	Date Analyzed: 0	01/16/98
■ GC Column: RTX-502 ID: 0.53 (mm) D	Dilution Factor:	1.0
Soil Extract Volume:(uL) S	Soil Aliquot Vol	lume:(uL)
CONCENT	TRATION UNITS:	
	or ug/Kg) UG/KG	Q
74-87-3	ne	11

### 1EVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NC
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							242324
Lab	Name:	ACCREDITED	LABS,	INC.	Contract	*	ĺ
				0060140			

Lab Code: 11109 Case No.: 8690 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9800460

Sample wt/vol:  $5.0 mtext{(g/mL)} mtext{ G}$ Lab File ID: >D4306

Level: (low/med) LOW Date Received: 01/13/98

% Moisture: not dec. 6 Date Analyzed: 01/16/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

Soil Aliquot Volume: ___(uL) Soil Extract Volume: ____(uL)

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Number TICs found: 2 CAS NUMBER COMPOUND NAME RTEST. CONC. 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|                                    | ntract:                                      |
|------------------------------------|----------------------------------------------|
| Lab Code: 11109 Case No.: 8690 S   | AS No.: SDG No.:                             |
| Matrix: (soil/water) SOIL          | Lab Sample ID: 9800461                       |
| Sample wt/vol: 5.0 (g/mL) G        | Lab File ID: >D4307                          |
| Level: (low/med) LOW               | Date Received: 01/13/98                      |
| % Moisture: not dec. 15            | Date Analyzed: 01/16/98                      |
| ■ GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0                         |
| Soil Extract Volume:(uL)           | Soil Aliquot Volume:(uL)                     |
| CAS NO. COMPOUND                   | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q |
| 74-87-3                            | 12                                           |

79-01-6----Trichloroethene

71-43-2-----Benzene

108-88-3-----Toluene

100-42-5----Styrene

75-25-2----Bromoform

591-78-6----2-Hexanone

108-90-7-----Chlorobenzene

1330-20-7-----Xylene (total)

100-41-4----Ethylbenzene

124-48-1-----Dibromochloromethane

108-10-1----4-Methyl-2-Pentanone

127-18-4----Tetrachloroethene

79-00-5----1,1,2-Trichloroethane

10061-02-6----trans-1,3-Dichloropropene

79-34-5----1, 1, 2, 2-Tetrachloroethane

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| ,                                | Contract:                                  |
|----------------------------------|--------------------------------------------|
| Lab Code: 11109 Case No.: 8698   | SAS No.: SDG No.:                          |
| Matrix: (soil/water) SOIL        | Lab Sample ID: 9800461                     |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >D4307                        |
| Level: (low/med) LOW             | Date Received: 01/13/98                    |
| % Moisture: not dec. 15          | Date Analyzed: 01/16/98                    |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0                       |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL)                   |
| Number TICs found: 1             | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG |

| CAS NU         | MBER  |         | COMPOUND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NAME                                                                                                           | F  | PT.                    | EST.                                     | . CONC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Q                               |
|----------------|-------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----|------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1.             | 76131 | Ethane, | 1,1,2-tri                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | chloro-1,2                                                                                                     | 10 | 0.03                   |                                          | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | N                               |
| 2.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ELPHANICA BARRANIA MARKANIA MARKANIA MARKANIA MARKANIA MARKANIA MARKANIA MARKANIA MARKANIA MARKANIA MARKANIA M |    | · <b>-</b> -           |                                          | 44.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |
| 4.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | -  |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 5.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | -  |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 6.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | *                                                                                                              |    | MARKET THE E CHANGE OF |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 7.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |    |                        | The second section of the second         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 8.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |    |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 9.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | _  |                        | **                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 0.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | _  |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 1              |       | _       | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                | -  |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 2.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | -  |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 4.             |       | -       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |    |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
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| 6.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |    |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 7.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | -  |                        | **                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 8.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |    |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
| 9.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |    |                        | 7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
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| 1.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |    |                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
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| 3.             |       | -       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | _  |                        |                                          | water and construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of |                                 |
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| 6.<br>7.       |       | -       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                | -  |                        | -                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
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| 9.             |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |    |                        | 1 ATA 1 TOTAL TIME 21 1967 of 2          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |
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23 24 18-19

Lab File ID: >D4308

Lab Name: ACCREDITED LABS, INC. Contract: 8069 LHC Case No.: <del>8690</del> SAS No.: SDG No.: Lab Code: 11109 .Matrix: (soil/water) SOIL Lab Sample ID: 9800462

Date Received: 01/13/98 Level: (low/med) LOW

5.0 (g/mL) G

Sample wt/vol:

% Moisture: not dec. 11 Date Analyzed: 01/16/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ____ (uL) Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG COMPOUND Q CAS NO.

| 74-87-3Chloromethane                    | 11   | U |
|-----------------------------------------|------|---|
| 74-83-9Bromomethane                     | 11   | U |
| 75-01-4Vinyl Chloride                   | 11   | U |
| 75-00-3Chloroethane                     | 11   | U |
| 75-09-2Methylene Chloride               | 11   | U |
| 67-64-1Acetone                          | 11   | U |
| 75-15-0Carbon Disulfide                 | 11   | U |
| 75-35-41,1-Dichloroethene               |      | U |
| 75-34-31,1-Dichloroethane               | 11   | U |
| 540-59-01,2-Dichloroethene (total       | 11   | U |
| 67-66-3Chloroform                       | 11   | U |
| 107-06-21,2-Dichloroethane              | 11   | U |
| 78-93-32-Butanone                       | 1 1  | U |
| 71-55-61,1,1-Trichloroethane            | 11   | U |
| 56-23-5Carbon Tetrachloride             | 11   | U |
| 75-27-4Bromodichloromethane             | 11   | U |
| 78-87-51,2-Dichloropropane              | 11   | U |
| 10061-01-5cis-1,3-Dichloropropene       | 11   | U |
| 79-01-6Trichloroethene                  |      | U |
| 124-48-1Dibromochloromethane            |      | U |
| 79-00-51,1,2-Trichloroethane            | 11   | U |
| 71-43-2Benzene                          | 11   | U |
| 10061-02-6trans-1,3-Dichloropropene     | 11   | U |
| 75-25-2Bromoform                        | 11   | U |
| 108-10-14-Methyl-2-Pentanone            | 11   | U |
| 591-78-62-Hexanone                      | 11   | U |
| 127-18-4Tetrachloroethene               | 11   | U |
| 79-34-51,1,2,2-Tetrachloroethane        | 11   | U |
| 108-88-3Toluene                         | 11   | U |
| 108-90-7Chlorobenzene                   | 1.1  | U |
| 100-41-4Ethylbenzene                    | 1.1  | U |
| 100-42-5Styrene                         | , 11 | U |
| 1330-20-7Xylene (total)                 | 11   | U |
| - · · · · · · · · · · · · · · · · · · · |      |   |
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| EPA | SAMPL | ъ ио | ١. |
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| Lab Name: ACCREDITED LABS, INC. | Contract:              |
|---------------------------------|------------------------|
| Lab Code: 11109 Case No.: 8690  |                        |
| Matrix: (soil/water) SOIL       | Lab Sample ID: 9800462 |
| Sample wt/vol: 5.0 (g/mL) G     | Lab File ID: >D4308    |

Level: (low/med) LOW Date Received: 01/13/98

% Moisture: not dec. 11 Date Analyzed: 01/16/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Aliquot Volume: ___(uL) Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: Number TICs found: 2 (ug/L or ug/Kg) UG/KG

| CAS NUMBER                                    | COMPOUND NAME | RT    | EST. CONC. | Q      |
|-----------------------------------------------|---------------|-------|------------|--------|
| 1. 76131<br>2. 3. 4. 5. 6. 7. 8. 9. 10.       |               | 10.03 | 48 8       | N<br>N |
| 11.<br>12.<br>13.<br>14.<br>15.<br>16.<br>17. |               |       |            |        |
| 19.<br>20.<br>21.<br>22.<br>23.               |               |       |            |        |
| 25.<br>26.<br>27.<br>28.<br>29.               |               |       |            |        |

20 12-13 kmc

| - | Lab Name: ACCREDITED LABS, INC.                                              | Contract:                  |                      |       |      |
|---|------------------------------------------------------------------------------|----------------------------|----------------------|-------|------|
| _ | Lab Code: 11109 Case No.: 80                                                 | 69 SAS No.:                | SDG No.:             |       |      |
| • | Matrix: (soil/water) SOIL                                                    | Lab S                      | ample ID: 9800       | 1463  |      |
|   | Sample wt/vol: 5.0 (g/mL                                                     | .) G Lab F                 | ile ID: >D43         | 13    |      |
| # | Level: (low/med) LOW                                                         | Date                       | Received: 01/1       | 3/98  |      |
|   | % Moisture: not dec. 9                                                       | Date                       | Analyzed: 01/1       | 7/98  |      |
| - | GC Column: RTX-502 ID: 0.53 (                                                | mm) Dilut                  | ion Factor:          | 1.0   |      |
|   | Soil Extract Volume:(uL)                                                     | Soil                       | Aliquot Volume       | •     | (uL) |
| - | CAS NO. COMPOUND                                                             | CONCENTRATI<br>(ug/L or ug |                      | Q     |      |
|   | 74-87-3Chloromet<br>74-83-9Bromometh<br>75-01-4Vinyl Chl<br>75-00-3Chloroeth | aneoride                   | 11<br>11<br>11<br>11 | U U U |      |
| - | , , , , , , , , , , , , , , , , , , , ,                                      | A                          | 1                    | 1     |      |

| 74-87-3 | 11 11 11 11 11 11 11 11 11 11 11 11 11 |  |
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| EPA     | SAMPLE | MO  |
|         |        | MO. |

| Lab | Name: | ACCREDITED LAB | s, INC. | Contract: | €0 12-13 lm = |
|-----|-------|----------------|---------|-----------|---------------|
|     | _     |                |         |           |               |

SAS No.: _____ SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9800463

Sample wt/vol:  $5.0 mtext{(g/mL)} mtext{ G}$ Lab File ID: >D4313

Level: (low/med) LOW Date Received: 01/13/98

% Moisture: not dec. 9 Date Analyzed: 01/17/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 10 (ug/L or ug/Kg) UG/KG

|             | COMPOUND NAME                | RT    | EST. CONC. | Q |
|-------------|------------------------------|-------|------------|---|
| 1. 556672   | Cyclotetrasiloxane, octameth |       | 310        | N |
| 2.          | Unknown Hydrocarbon          | 30.97 | 94         | N |
| <i>3</i> •  | Unknown Hydrocarbon          | 31.10 | 100        | N |
| 4. 17302282 | Nonane, 2,6-dimethyl- (8CI9C | 31.38 | 690        | N |
| 5.          | Unknown Hydrocarbon          | 31.84 | 160        | N |
| 6. 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 31.97 | 130        | N |
| 7.          | Unknown Hydrocarbon          | 32.48 | 670        | N |
| 8.          | Unknown Hydrocarbon          | 32.89 | 480        | N |
| 9.          | Unknown Hydrocarbon          | 33.39 | 380        | N |
| 0.          | Unknown Aromatic             | 33.76 | 580        | N |
| . 4. •      |                              |       |            |   |
|             |                              |       |            |   |
| 3.          |                              |       |            |   |
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| J •         |                              |       |            |   |
| <b>6.</b>   |                              |       |            |   |
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| 0.          |                              |       |            |   |
| 9.          |                              |       |            |   |

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

26 19-20 htract:

| Lab Name: ACCREDITED LABS, INC.  | Contract:                                    |
|----------------------------------|----------------------------------------------|
| Lab Code: 11109 Case No.: 8069   | SAS No.: SDG No.:                            |
| ■ Matrix: (soil/water) SOIL      | Lab Sample ID: 9800464                       |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >D4319                          |
| Level: (low/med) LOW             | Date Received: 01/13/98                      |
| % Moisture: not dec. 3           | Date Analyzed: 01/17/98                      |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0                         |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL)                     |
| CAS NO. COMPOUND                 | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q |

|            | A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR |    |    |
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| 74-87-3    | Chloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 | U  |
|            | Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 | U  |
|            | Vinyl Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10 | U  |
|            | Chloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 | U  |
| 75-09-2    | Methylene Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 | U  |
| 67-64-1    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 | U  |
| 75-15-0    | Carbon Disulfide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10 | U  |
|            | 1,1-Dichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 | U  |
|            | 1,1-Dichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 | U  |
| 540-59-0   | 1,2-Dichloroethene (total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 | UU |
| 67-66-3    | Chloroform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 | U  |
| 107-06-2   | 1,2-Dichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 | U  |
|            | 2-Butanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 | U  |
| 71-55-6    | 1,1,1-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10 | U  |
| 56-23-5    | Carbon Tetrachloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 | U  |
| 75-27-4    | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 | U  |
| 78-87-5    | 1,2-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10 | U  |
| 10061-01-5 | cis-1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 | U  |
| 79-01-6    | Trichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 | UU |
| 124-48-1   | Dibromochloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 | UU |
| 79-00-5    | 1,1,2-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10 | UU |
| 71-43-2    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 | U  |
| 10061-02-6 | trans-1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 | U  |
| 75-25-2    | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 | U  |
| 108-10-1   | 4-Methyl-2-Pentanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 | U  |
|            | 2-Hexanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 | U  |
| 127-18-4   | Tetrachloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10 | U  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 | U  |
| 108-88-3   | Toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 | U  |
|            | Chlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10 | U  |
|            | Ethylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 | U  |
| 100-42-5   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 | UU |
| 1330-20-7  | Xylene (total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10 | U  |
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| EPA |    | SAMPLE  | NC |
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|     | 26 | 5 19-20 |    |

| Lab Name: ACCREDITED | LABS, INC.    | Contract:            | 26 19-20  |
|----------------------|---------------|----------------------|-----------|
| Lab Code: 11109      | ·             | SAS No.: SDG N       | 0.:       |
| Matrix: (soil/water) | SOIL          | Lab Sample ID:       | 9800464   |
| Sample wt/vol:       | 5.0 (g/mL) G  | Lab File ID:         | >D4319    |
| Level: (low/med)     | LOW           | Date Received:       | 01/13/98  |
| % Moisture: not dec. | 3             | Date Analyzed:       | 01/17/98  |
| GC Column: RTX-502   | ID: 0.53 (mm) | Dilution Factor      | : 1.0     |
| Soil Extract Volume: | (uL)          | Soil Aliquot Vo.     | lume:(uL) |
|                      |               | CONCENTRATION UNITS: | •         |

(ug/L or ug/Kg) UG/KG

Number TICs found: 2

| CAS NUMBER      | COMPOUND NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EST. 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Manager 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V VIII V VIII VIII V V V V V V V V V V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |
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L. L. L. 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C. W. C. W. C. W. W. W. W. W. W. W. W. W. W. W. W. 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### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

25 15-16

| _Lab Name: ACCREDITED LABS, INC. Cont | tract:                                       |
|---------------------------------------|----------------------------------------------|
| Lab Code: 11109                       | S No.: SDG No.:                              |
| Matrix: (soil/water) SOIL             | Lab Sample ID: 9800465                       |
| Sample wt/vol: 5.0 (g/mL) G           | Lab File ID: >D4320                          |
| Level: (low/med) LOW                  | Date Received: 01/13/98                      |
| % Moisture: not dec. 14               | Date Analyzed: 01/17/98                      |
| GC Column: RTX-502 ID: 0.53 (mm)      | Dilution Factor: 1.0                         |
| Soil Extract Volume:(uL)              | Soil Aliquot Volume:(uL)                     |
|                                       | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q |
| 74-87-3                               | 12 U 12 U 12 U 12 U 12 U 12 U 12 U 12 U      |
| 1330-20-7Xylene (total)               | 12 U                                         |

| EPA | S | AMP         | LE | NO |
|-----|---|-------------|----|----|
| 25  | 5 | 15 <b>-</b> | 16 |    |

| Lab Name: ACCREDITED LABS, INC | C. Contract:                     | 25 15-16       |
|--------------------------------|----------------------------------|----------------|
| Lab Code: 11109 Case No.:      | 8069 SAS No.:                    | SDG No.:       |
| Matrix: (soil/water) SOIL      | Lab Sample                       | ID: 9800465    |
| Sample wt/vol: 5.0 (g          | /mL) G Lab File I                | D: >D4320      |
| Level: (low/med) LOW           | Date Recei                       | ved: 01/13/98  |
| % Moisture: not dec. 14        | Date Analy                       | zed: 01/17/98  |
| GC Column: RTX-502 ID: 0.53    | (mm) Dilution F                  | actor: 1.0     |
| Soil Extract Volume:(          | aL) Soil Aliqu                   | ot Volume:(uL) |
| Number TICs found: 1           | CONCENTRATION UN (ug/L or ug/Kg) |                |

| CAS NUMBER | COMPOUND NAME    | RT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EST. CONC.                                                                            | Q |
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| 13.        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |   |
| 14.        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - Transcer 1: VE AN 1 AND MALE AND AND AND AND AND AND AND AND AND AND                |   |
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| 16.        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |   |
| 17.        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |   |
| 18.        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |   |
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| 24.        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |   |
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| 26.<br>27. |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |   |
| 28.        |                  | ***************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | the district over \$111000 (graphy) and \$1. It is a second the defended projections. |   |
| 29.        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |   |
| 30.        |                  | MA INVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |   |
| JU         |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                                                                     |   |

EPA SAMPLE NO.

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| Lab Name: ACCREDITED LABS, INC.  | Contract:                |
|----------------------------------|--------------------------|
| Lab Code: 11109 Case No.: 8069   | SAS No.: SDG No.:        |
| Matrix: (soil/water) SOIL        | Lab Sample ID: 9800466   |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >D4323      |
| Level: (low/med) LOW             | Date Received: 01/13/98  |
| % Moisture: not dec. 4           | Date Analyzed: 01/17/98  |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0     |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL) |
| •                                | CONCENTRATION UNITS:     |

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/KG

| 74-87-3Chloromethane                | 10   | υ |
|-------------------------------------|------|---|
| 74-83-9Bromomethane                 | 10   | U |
| 75-01-4Vinyl Chloride               | 10   | U |
| 75-00-3Chloroethane                 | 10   | U |
| 75-09-2Methylene Chloride           | 10   | U |
| 67-64-1Acetone                      | 10   | U |
| 75-15-0Carbon Disulfide             | 10   | U |
| 75-35-41,1-Dichloroethene           | 10   | U |
| 75-34-31,1-Dichloroethane           | 10   | U |
| 540-59-01,2-Dichloroethene (total)  | 10   | U |
| 67-66-3Chloroform                   | 10   | U |
| 107-06-21,2-Dichloroethane          | 10   | U |
| 78-93-32-Butanone                   | 10   | U |
| 71-55-61,1,1-Trichloroethane        | 10   | U |
| 56-23-5Carbon Tetrachloride         | 10   | U |
| 75-27-4Bromodichloromethane         | 10   | U |
| 78-87-51,2-Dichloropropane          | 10   | U |
| 10061-01-5cis-1,3-Dichloropropene   | 10   | U |
| 79-01-6Trichloroethene              | 10   | U |
| 124-48-1Dibromochloromethane        | 10   | U |
| 79-00-51,1,2-Trichloroethane        | 10   | U |
| 71-43-2Benzene                      | 10   | U |
| 10061-02-6trans-1,3-Dichloropropene | 10   | U |
| 75-25-2Bromoform                    | 10   | U |
| 108-10-14-Methyl-2-Pentanone        | 10   | U |
| 591-78-62-Hexanone                  | 10   | U |
| 127-18-4Tetrachloroethene           | 10   | U |
| 79-34-51,1,2,2-Tetrachloroethane    | 10   | U |
| 108-88-3Toluene                     | 10   | U |
| 108-90-7Chlorobenzene               | 10   | U |
| 100-41-4Ethylbenzene                | 10   | U |
| 100-42-5Styrene                     | ` 10 | U |
| 1330-20-7Xylene (total)             | 10   | U |
| -                                   |      |   |
|                                     |      |   |

| EPA | SA | MPI | ĿΕ | NO |
|-----|----|-----|----|----|
|     |    |     |    | -  |
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| Lab Name: ACCREDITED LABS, INC.  | Contract:                                  |
|----------------------------------|--------------------------------------------|
| Lab Code: 11109                  | SAS No.: SDG No.:                          |
| Matrix: (soil/water) SOIL        | Lab Sample ID: 9800466                     |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >D4323                        |
| Level: (low/med) LOW             | Date Received: 01/13/98                    |
| % Moisture: not dec. 4           | Date Analyzed: 01/17/98                    |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0                       |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL)                   |
| Number TICs found: 2             | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG |

| CAS NUMBER           | COMPOUND NAME                                    | RT | EST. CONC. | Q      |
|----------------------|--------------------------------------------------|----|------------|--------|
| 1. 556672<br>2. 3.   | Cyclotetrasiloxane, octameth<br>Unknown Aromatic |    | 52<br>160  | N<br>N |
| 5.<br>6.<br>7.       |                                                  | NA |            |        |
| 8.<br>9.<br>10.      |                                                  |    |            |        |
| 12.<br>13.<br>14.    |                                                  |    |            |        |
| 6.<br>7.<br>8.       |                                                  |    |            |        |
| 0.<br>1.<br>2.<br>3. |                                                  |    |            |        |
| 4.<br>5.<br>6.       |                                                  |    |            |        |
| 7.<br>8.<br>9.       |                                                  |    |            |        |

| Lab Name: ACCREDITE                                                                                                                                                                                                                                                                                                                                                                                                                      | D LABS, INC.                                                                                                                                                                                                                                                                      | Contract:                                                                                                                                         | 26 12-13  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Lab Code: 11109                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                   |                                                                                                                                                   | No.:      |
| Matrix: (soil/water                                                                                                                                                                                                                                                                                                                                                                                                                      | ) SOIL                                                                                                                                                                                                                                                                            | Lab Sample ID:                                                                                                                                    | 9800467   |
| Sample wt/vol:                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.0 (g/mL) G                                                                                                                                                                                                                                                                      | Lab File ID:                                                                                                                                      | >D4324    |
| Level: (low/med)                                                                                                                                                                                                                                                                                                                                                                                                                         | LOW                                                                                                                                                                                                                                                                               | Date Received:                                                                                                                                    | 01/13/98  |
| % Moisture: not dec                                                                                                                                                                                                                                                                                                                                                                                                                      | . 13                                                                                                                                                                                                                                                                              | Date Analyzed:                                                                                                                                    | 01/17/98  |
| GC Column: RTX-502                                                                                                                                                                                                                                                                                                                                                                                                                       | ID: 0.53 (mm)                                                                                                                                                                                                                                                                     | Dilution Facto                                                                                                                                    | r: 1.0    |
| Soil Extract Volume:                                                                                                                                                                                                                                                                                                                                                                                                                     | :(uL)                                                                                                                                                                                                                                                                             | Soil Aliquot V                                                                                                                                    | olume:(uL |
| CAS NO.                                                                                                                                                                                                                                                                                                                                                                                                                                  | COMPOUND                                                                                                                                                                                                                                                                          | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/K                                                                                                         | G Q       |
| 74-83-9 75-01-4 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 75-34-3 76-66-3 78-93-3 75-27-4 75-27-4 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 79-01-6 10061-02-6 75-25-2 108-10-1 591-78-6 108-88-3 108-90-7 100-41-4 100-42-5 | Carbon Disulf1,1-Dichloroe1,2-Dichloroe1,2-Dichloroe2-Butanone1,1-TrichlorCarbon TetrachBromodichloroe1,2-Dichloropcis-1,3-DichloroeTrichloroetherDibromochloroe1,1,2-TrichlorBenzenetrans-1,3-DichloroetherBromoform4-Methyl-2-Per2-HexanoneTetrachloroetherTolueneChlorobenzene | e oride ide thene thane thene (total) thane roethane hloride methane ropane oropropene ne methane roethane hloropropene hloropropene chloroethane | 11        |

| EPA |   | SAME | LE  | NC |
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| 2   | 6 | 12-  | -13 |    |

| Lab Name: ACCREDITED LABS, INC.  | Contract:                                  |       |
|----------------------------------|--------------------------------------------|-------|
| Lab Code: 11109                  | SAS No.: SDG No.:                          |       |
| Matrix: (soil/water) SOIL        | Lab Sample ID: 9800                        | 467   |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >D43                          | 24    |
| Level: (low/med) LOW             | Date Received: 01/1                        | 3/98  |
| % Moisture: not dec. 13          | Date Analyzed: 01/1                        | 7/98  |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0                       | )     |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume                        | :(uL) |
| Number TICs found: 0             | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | •     |

| CAS NUMBER | COMPOUND NAME                           | RT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EST. CONC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Q<br>=====                                |
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| 2.         | y                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Anna Anna A. I. I. I. I. I. I. I. I. I. I. I. I. I.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ****************                          |
| 3.         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
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| 8.         |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | **************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |
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| 13.        |                                         | -1 -th-truette errorthous, and about accommunity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
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| 15.<br>16. |                                         | AND DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~~~~~                                     |
| 17.        | *************************************** |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 18.        | -12-0 N                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 19.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | * * * * * * * * * * * * * * * * * * *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |
| 20.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 21.        |                                         | MANUFACTURE AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND AD |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ACCORDING A STORY OF STREET OF            |
| 22.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 23.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 24.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 25.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 26.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 27         |                                         | WEREALD TO THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mark of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o |                                           |
| 28.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 29.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |
| 30.        |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | `                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |

| 22 | 19-20 |  |
|----|-------|--|

| Lab Name: ACCREDITE                                                                                                                                                                                                                                                                                                        | D LABS, INC.                                                                                                                                                                                                                                                                           | Contract:                                  | 22 19-20  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|
| Lab Code: 11 <b>1</b> 09                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                        |                                            | 0.:       |
| Matrix: (soil/water                                                                                                                                                                                                                                                                                                        | ) SOIL                                                                                                                                                                                                                                                                                 | Lab Sample ID:                             | 9800468   |
| Sample wt/vol:                                                                                                                                                                                                                                                                                                             | 5.0 (g/mL) G                                                                                                                                                                                                                                                                           | Lab File ID:                               | >D4325    |
| Level: (low/med)                                                                                                                                                                                                                                                                                                           | LOW                                                                                                                                                                                                                                                                                    | Date Received:                             | 01/13/98  |
| <pre>% Moisture: not dec</pre>                                                                                                                                                                                                                                                                                             | . 5                                                                                                                                                                                                                                                                                    | Date Analyzed:                             | 01/17/98  |
| GC Column: RTX-502                                                                                                                                                                                                                                                                                                         | ID: 0.53 (mm)                                                                                                                                                                                                                                                                          | Dilution Factor                            | : 1.0     |
| Soil Extract Volume                                                                                                                                                                                                                                                                                                        | :(uL)                                                                                                                                                                                                                                                                                  | Soil Aliquot Vo                            | lume:(uL) |
| CAS NO.                                                                                                                                                                                                                                                                                                                    | COMPOUND                                                                                                                                                                                                                                                                               | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q         |
| 74-83-9 75-01-4 75-09-2 75-09-2 75-15-0 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 75-27-4 75-27-4 79-01-6 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-00-5 124-48-1 79-01-6 124-48-1 79-01-6 124-48-1 79-01-6 124-48-1 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 108-88-3 108-90-7 100-41-4 100-42-5 | Carbon Disulf:1,1-Dichloroet1,2-Dichloroet1,2-Dichloroet2-Butanone1,1-TrichlorCarbon TetrachBromodichlorom1,2-DichloroprtichloroetherDibromochlorom1,1,2-TrichlorBenzenetrans-1,3-DichlorBromoform4-Methyl-2-Per2-HexanoneTetrachloroether1,1,2,2-TetrachloroetherTolueneChlorobenzene | e                                          | 10        |

| EPA | - | AMPLE | NO |  |
|-----|---|-------|----|--|
|     |   |       | -  |  |
|     |   |       |    |  |
| 22  | 2 | 19-20 | ļ  |  |

| Lab Name: ACCREDITED I | LABS, INC.    | Contract:       |            |
|------------------------|---------------|-----------------|------------|
| Lab Code: 11109 Ca     | ase No.: 8069 | SAS No.: SDG N  | 0.:        |
| Matrix: (soil/water) S | SOIL          | Lab Sample ID:  | 9800468    |
| Sample wt/vol:         | 5.0 (g/mL) G  | Lab File ID:    | >D4325     |
| Level: (low/med) I     | LOW           | Date Received:  | 01/13/98   |
| % Moisture: not dec.   | 5             | Date Analyzed:  | 01/17/98   |
| GC Column: RTX-502     | ID: 0.53 (mm) | Dilution Factor | : 1.0      |
| Soil Extract Volume: _ | (uL)          | Soil Aliquot Vo | lume: (uL) |

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME                  | RT             | EST. CONC. | Q<br>==== |
|------------|--------------------------------|----------------|------------|-----------|
| 2.         | Unknown Hydrocarbon<br>Unknown | 29.37<br>33.71 | 18         | N<br>N    |
| 7          |                                |                |            |           |
| 9.         |                                |                |            |           |
|            |                                |                |            |           |
|            |                                |                |            |           |
|            |                                |                |            |           |
|            |                                |                |            |           |
|            |                                |                |            |           |

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| 22 | 5-6 |  |
|----|-----|--|
|    |     |  |

|                                  | 1 22 5-6                 |
|----------------------------------|--------------------------|
| Lab Name: ACCREDITED LABS, INC.  | Contract:                |
| Lab Code: 11109 Case No.: 8069   | SAS No.: SDG No.:        |
| Matrix: (soil/water) SOIL        | Lab Sample ID: 9800469   |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >D4326      |
| ►Level: (low/med) LOW            | Date Received: 01/13/98  |
| % Moisture: not dec. 12          | Date Analyzed: 01/17/98  |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0     |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL) |
|                                  |                          |

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| I               |                        |            |   |
|-----------------|------------------------|------------|---|
| 74-87-3Chlo     |                        | 11         | U |
| 74-83-9Brom     |                        | 11         | U |
| 75-01-4Viny     | l Chloride             | 11         | U |
| 75-00-3Chlo     | roethane               | 11         | U |
| 75-09-2Meth     | ylene Chloride         | 11         | U |
| 67-64-1Acet     |                        | 11         | U |
| 75-15-0Carb     | on Disulfide           | 11         | U |
| 75-35-41,1-     | Dichloroethene         | 11         | U |
| 75-34-31,1-     | Dichloroethane         | 11         | U |
| 540-59-01,2-    | Dichloroethene (total) | 11         | U |
| 67-66-3Chlo     | roform                 | 11         | U |
| 107-06-21,2-    | Dichloroethane         | 1.1        | U |
| 78-93-32-Bu     | tanone                 | 11         | U |
| 71-55-61,1,     |                        | 11         | U |
| 56-23-5Carb     | on Tetrachloride       | 11         | U |
| 75-27-4Brom     | odichloromethane       | 11         | U |
| 78-87-51,2-     | Dichloropropane        | 1.1        | U |
| 10061-01-5cis-  | 1,3-Dichloropropene    | 1.1        | U |
| 79-01-6Tric     | nloroethene            | 11         | U |
| 124-48-1Dibre   | omochloromethane       | 11         | U |
| 79-00-51,1,1    |                        | 11         | U |
| 71-43-2Benze    |                        | 11         | U |
| 10061-02-6trans | s-1,3-Dichloropropene  | 11         | U |
| 75-25-2Brom     |                        | 11         | U |
| 108-10-14-Me    |                        | 11         | U |
| 591-78-62-He    |                        | 1 <b>1</b> | U |
| 127-18-4Tetr    |                        | 11         | U |
|                 | 2,2-Tetrachloroethane  | 11         | U |
| 108-88-3Tolue   |                        | 11         | U |
| 108-90-7Chlo    |                        | 11         | U |
| 100-41-4Ethy    |                        | 11         | U |
| 100-42-5Styre   |                        | , 11       | U |
| 1330-20-7Xyle   | ne (total)             | 11         | U |
|                 |                        |            |   |
|                 |                        |            |   |

| EPA  | SAMPLE | NO |
|------|--------|----|
| <br> |        |    |
| 22   | 2 5-6  |    |

| Lab Name: ACCREDITED | LABS, INC.     | Contract:          |         |
|----------------------|----------------|--------------------|---------|
| Lab Code: 11109      | Case No.: 8069 | SAS No.: SDG No.:  | •<br>•  |
| Matrix: (soil/water) | SOIL           | Lab Sample ID: 980 | 00469   |
| Sample wt/vol:       | 5.0 (g/mL) G   | Lab File ID: >D4   | 4326    |
| Level: (low/med)     | LOW            | Date Received: 01/ | /13/98  |
| % Moisture: not dec. | 12             | Date Analyzed: 01/ | /17/98  |
| GC Column: RTX-502   | ID: 0.53 (mm)  | Dilution Factor: 1 | 1.0     |
| Soil Extract Volume: | (uL)           | Soil Aliquot Volum | ne:(uL) |

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NUMBER        | COMPOUND NAME    | RT    | EST. CONC. | Q                                      |
|-------------------|------------------|-------|------------|----------------------------------------|
| 1                 | Unknown Aromatic | 33.69 | 7          | N                                      |
| 4.<br>5.          |                  |       |            |                                        |
| 6.<br>7.<br>8.    |                  |       |            |                                        |
| ).<br>1.          |                  |       |            | ************************************** |
| 2 ·<br>3 ·<br>4 · |                  |       |            |                                        |
| 5.<br>7.          |                  |       |            |                                        |
| ).<br>).          |                  |       |            |                                        |
| 2.                |                  |       |            |                                        |
| 5.<br>7.          |                  |       |            |                                        |
| 3.                |                  |       |            |                                        |
| 0.                |                  |       | ,          |                                        |

Q

| Lab | Name: | ACCREDITED       | LABS. | INC. | Contract: | 25 3-4 |
|-----|-------|------------------|-------|------|-----------|--------|
| Laz | mane. | TO CENTED I I ED | 2,    | 11.0 |           |        |

■ Matrix: (soil/water) SOIL Lab Sample ID: 9800470

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4327

■ Level: (low/med) LOW Date Received: 01/13/98

% Moisture: not dec. 6
Date Analyzed: 01/17/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| 74-87-3Chloromethane       11       U         74-83-9Bromomethane       11       U         75-01-4Vinyl Chloride       11       U         75-00-3Chloroethane       11       U         75-09-2Methylene Chloride       2       J         67-64-1Acetone       11       U         75-35-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |       | <del></del> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------|-------------|
| 74-83-9Bromomethane       11       U         75-01-4Vinyl Chloride       11       U         75-00-3Chloroethane       11       U         75-09-2Methylene Chloride       2       J         67-64-1Acetone       11       U         75-15-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 74-87-3Chloromethane               | 11    | l u         |
| 75-01-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |       |             |
| 75-00-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    | 11    | U           |
| 75-09-2Methylene Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 75-00-3Chloroethane                |       |             |
| 67-64-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    | 2     | J           |
| 75-35-41,1-Dichloroethene 75-34-31,1-Dichloroethane 540-59-01,2-Dichloroethene (total) 67-66-3Chloroform 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |       | l           |
| 75-35-41,1-Dichloroethene 75-34-31,1-Dichloroethane 540-59-01,2-Dichloroethene (total) 67-66-3Chloroform 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 75-15-0Carbon Disulfide            | 11    | U           |
| 75-34-31,1-Dichloroethane       11       U         540-59-01,2-Dichloroethene       (total)       11       U         67-66-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 75-35-41,1-Dichloroethene          | 11    | U           |
| 540-59-01, 2-Dichloroethene (total)       11       U         67-66-3Chloroform       11       U         107-06-21, 2-Dichloroethane       11       U         78-93-32-Butanone       11       U         71-55-61, 1, 1-Trichloroethane       11       U         56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51, 2-Dichloropropane       11       U         10061-01-5cis-1, 3-Dichloropropene       11       U         79-01-6Trichloroethane       11       U         79-00-51, 1, 2-Trichloroethane       11       U         79-00-51, 1, 2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1, 3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethane       11       U         108-80-7Chlorobenzene       11       U         100-42-5Styrene       11       U | 75-34-31,1-Dichloroethane          | 11    | U           |
| 67-66-3Chloroform       11       U         107-06-21,2-Dichloroethane       11       U         78-93-32-Butanone       11       U         71-55-61,1,1-Trichloroethane       11       U         56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5tis-1,3-Dichloropropene       11       U         79-01-6Trichloroethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         1061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-42-5Styrene       11       U                            | 540-59-01,2-Dichloroethene (total) | 1 1   | U           |
| 78-93-32-Butanone       11       U         71-55-61,1,1-Trichloroethane       11       U         56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethane       11       U         79-01-6Trichloroethane       11       U         79-00-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    | 11    | U           |
| 71-55-61,1,1-Trichloroethane       11       U         56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-5Toluene       11       U         108-88-3Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                            | 107-06-21,2-Dichloroethane         | 11    |             |
| 56-23-5Carbon Tetrachloride       11       U         75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         109-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                      | 78-93-32-Butanone                  | 11    | U           |
| 75-27-4Bromodichloromethane       11       U         78-87-51,2-Dichloropropane       11       U         10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         1061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Styrene       11       U                                                                                                                                                                                                                                                                                     | 71-55-61,1,1-Trichloroethane       | 11    | U           |
| 78-87-51, 2-Dichloropropane       11       U         10061-01-5cis-1, 3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51, 1, 2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1, 3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51, 1, 2, 2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         109-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                        | 56-23-5Carbon Tetrachloride        | ] 1 1 | -U          |
| 10061-01-5cis-1,3-Dichloropropene       11       U         79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Styrene       11       U            100-42-5                                                                                                                                                                                                                                                                                                               | 75-27-4Bromodichloromethane        | 11    | U           |
| 79-01-6Trichloroethene       11       U         124-48-1Dibromochloromethane       11       U         79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                | 78-87-51,2-Dichloropropane         | 11    | U           |
| 124-48-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10061-01-5cis-1,3-Dichloropropene  | 11    | U           |
| 79-00-51,1,2-Trichloroethane       11       U         71-43-2Benzene       11       U         10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    | 11    | U           |
| 71-43-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    | 11    | U           |
| 10061-02-6trans-1,3-Dichloropropene       11       U         75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 79-00-51,1,2-Trichloroethane       | 11    | U           |
| 75-25-2Bromoform       11       U         108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    | 11    | U           |
| 108-10-14-Methyl-2-Pentanone       11       U         591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    | 11    | U           |
| 591-78-62-Hexanone       11       U         127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    | 11    | U           |
| 127-18-4Tetrachloroethene       11       U         79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    | 11    | U           |
| 79-34-51,1,2,2-Tetrachloroethane       11       U         108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    | 11    | U           |
| 108-88-3Toluene       11       U         108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    | 11    | U           |
| 108-90-7Chlorobenzene       11       U         100-41-4Ethylbenzene       11       U         100-42-5Styrene       11       U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    | 11    | U           |
| 100-41-4Ethylbenzene 11 U<br>100-42-5Styrene 11 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    | 11    | U           |
| 100-42-5Styrene 11 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    | 11    | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | *                                  | 11    | U           |
| 1330-20-7Xylene (total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    | , 11  | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1330-20-7Xylene (total)            | 11    | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                    |       |             |

| EPA | S  | AMP   | $_{ m LE}$ | NO |   |
|-----|----|-------|------------|----|---|
|     |    |       |            |    | - |
|     |    | -     |            |    |   |
| 2 5 | ί. | 3 - 4 |            |    | ļ |

| Lab Name: ACCREDITED | LABS, INC.     | Contract:            |           |
|----------------------|----------------|----------------------|-----------|
| Lab Code: 11109      | Case No.: 8069 | SAS No.: SDG No      | ·:        |
| Matrix: (soil/water) | SOIL           | Lab Sample ID: 9     | 9800470   |
| Sample wt/vol:       | 5.0 (g/mL) G   | Lab File ID:         | D4327     |
| Level: (low/med)     | LOW            | Date Received: 0     | 01/13/98  |
| % Moisture: not dec. | 6              | Date Analyzed: 0     | 01/17/98  |
| GC Column: RTX-502   | ID: 0.53 (mm)  | Dilution Factor:     | 1.0       |
| Soil Extract Volume: | (uL)           | Soil Aliquot Vol     | .ume:(uL) |
|                      |                | CONCENTRATION UNITS: |           |

(ug/L or ug/Kg) UG/KG

Number TICs found: 2 CAS NUMBER COMPOUND NAME EST. CONC. Q ----556672 Cyclotetrasiloxane, octameth 29.35 N Unknown Aromatic 33.68 48 N 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 29. 30.

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| Lab Name: ACCREDITED LABS, INC.  | Contract:                                    |
|----------------------------------|----------------------------------------------|
| Lab Code: 11109 Case No.: 8069   | SAS No.: SDG No.:                            |
| Matrix: (soil/water) SOIL        | Lab Sample ID: 9800471                       |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >D4328                          |
| Level: (low/med) LOW             | Date Received: 01/13/98                      |
| % Moisture: not dec. 18          | Date Analyzed: 01/18/98                      |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0                         |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL)                     |
| CAS NO. COMPOUND                 | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q |
| 74-87-3                          | 12                                           |

| EPA | SAMPLE | NO |
|-----|--------|----|
|     |        |    |

| IARS INC       | Contract                           | 20 23-24                                            |
|----------------|------------------------------------|-----------------------------------------------------|
| LABS, INC.     | concrace.                          |                                                     |
| Case No.: 8069 | SAS No.: SDG                       | No.:                                                |
| SOIL           | Lab Sample ID:                     | 9800471                                             |
| 5.0 (g/mL) G   | Lab File ID:                       | >D4328                                              |
| LOW            | Date Received:                     | 01/13/98                                            |
|                | Case No.: 8069  SOIL  5.0 (g/mL) G | SOIL SOIL Lab Sample ID:  5.0 (g/mL) G Lab File ID: |

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

% Moisture: not dec. 18

Number TICs found: 1

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Date Analyzed: 01/18/98

CAS NUMBER RTCOMPOUND NAME EST. CONC. THE RESERVE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE ===== 33.71 Unknown 3._ 6._ 7. 8. 9. 10. 11. 12. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

| Table Accomposition table two            | 21 22-23                               |
|------------------------------------------|----------------------------------------|
| Lab Name: ACCREDITED LABS, INC. Contract |                                        |
| Lab Code: 11109 Case No.: 8069 SAS No.   | : SDG No.:                             |
| Matrix: (soil/water) SOIL                | Lab Sample ID: 9800472                 |
| Sample wt/vol: 5.0 (g/mL) G              | Lab File ID: >D4329                    |
| Level: (low/med) LOW                     | Date Received: 01/13/98                |
| % Moisture: not dec. 12                  | Date Analyzed: 01/18/98                |
| GC Column: RTX-502 ID: 0.53 (mm)         | Dilution Factor: 1.0                   |
| Soil Extract Volume:(uL)                 | Soil Aliquot Volume:(uL)               |
| CONCE                                    | NTRATION UNITS:                        |
| CAS NO. COMPOUND (ug/L                   | or ug/Kg) UG/KG Q                      |
| 74-87-3                                  | 11 U U 11 U 11 U 11 U 11 U 11 U 11 U 1 |

EPA SAMPLE NO

| Lab | Name: | ACCREDITE | D LABS, INC.   | Contract: |     | 21 22-23 |
|-----|-------|-----------|----------------|-----------|-----|----------|
| Lab | Code: | 11109     | Case No.: 8069 | SAS No.:  | SDG | No.:     |

Matrix: (soil/water) SOIL

Lab Sample ID: 9800472

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >D4329

Level: (low/med) LOW

Date Received: 01/13/98

% Moisture: not dec. 12

Date Analyzed: 01/18/98

GC Column: RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume:

(uL)

CONCENTRATION UNITS:

Number TICs found: 5 (ug/L or ug/Kg) UG/KG

| CAS NUMBER                                 | COMPOUND NAME                                                                   | RT                                        | EST. CONC.               | Q                |
|--------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------|--------------------------|------------------|
| 1.<br>2.<br>3. 629629<br>4.<br>5.          | Unknown Unknown Aromatic Pentadecane (8CI9CI) Unknown Aromatic Unknown Aromatic | 29.35<br>30.40<br>32.87<br>33.28<br>33.69 | 12<br>20<br>43<br>8<br>8 | N<br>N<br>N<br>N |
| 7.<br>8.<br>9.<br>10.<br>11.<br>12.<br>13. |                                                                                 |                                           |                          |                  |
| 15.<br>16.<br>17.                          |                                                                                 |                                           |                          |                  |
| 20.<br>21.<br>22.<br>23.<br>24.            |                                                                                 |                                           |                          |                  |
| 25.<br>26.<br>27.<br>28.<br>29.<br>30.     |                                                                                 |                                           |                          |                  |

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Q

|                                  | 1 21 10-11                            |
|----------------------------------|---------------------------------------|
| Lab Name: ACCREDITED LABS, INC.  | · · · · · · · · · · · · · · · · · · · |
| Lab Code: 11109                  | SAS No.: SDG No.:                     |
| Matrix: (soil/water) SOIL        | Lab Sample ID: 9800473                |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >D4330                   |
| Level: (low/med) LOW             | Date Received: 01/13/98               |
| % Moisture: not dec. 14          | Date Analyzed: 01/18/98               |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0                  |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL)              |
|                                  | CONCENTRATION UNITS:                  |

(ug/L or ug/Kg) UG/KG

COMPOUND

CAS NO.

|            |                            | T    | Τ   |
|------------|----------------------------|------|-----|
| 74-87-3    | Chloromethane              | 12   | U   |
|            | Bromomethane               | 12   | U   |
|            | Vinyl Chloride             | 12   | U   |
|            | Chloroethane               | 12   | U   |
| 75-09-2    | Methylene Chloride         | 12   | U   |
| 67-64-1    |                            | 12   | U   |
| 75-15-0    | Carbon Disulfide           | 12   | U   |
| 75-35-4    | 1,1-Dichloroethene         | 12   | U   |
|            | 1,1-Dichloroethane         | 12   | U   |
|            | 1,2-Dichloroethene (total) | 12   | U   |
|            | Chloroform                 | 12   | U   |
|            | 1,2-Dichloroethane         | 12   | U   |
|            | 2-Butanone                 | 12   | U   |
|            | 1,1,1-Trichloroethane      | 12   | U   |
|            | Carbon Tetrachloride       | 12   | U   |
|            | Bromodichloromethane       | 12   | U   |
|            | 1,2-Dichloropropane        | 12   | U   |
|            | cis-1,3-Dichloropropene    | 12   | u   |
|            | Trichloroethene            | 12   | U   |
|            | Dibromochloromethane       | 12   | U   |
|            | 1,1,2-Trichloroethane      | 12   | U   |
| 71-43-2    |                            | 12   | U   |
| 10061-02-6 | trans-1,3-Dichloropropene  | 12   | [ ] |
| 75-25-2    | Bromoform                  | 12   | U   |
|            | 4-Methyl-2-Pentanone       | 12   | U   |
|            | 2-Hexanone                 | 12   | U   |
|            | Tetrachloroethene          | 12   | U   |
|            | 1,1,2,2-Tetrachloroethane  | 12   | U   |
| 108-88-3   |                            | 12   | U   |
|            | Chlorobenzene              | 12   | u-  |
|            | Ethylbenzene               | 12   |     |
| 100-42-5   | 4                          | , 12 | U   |
|            | Xylene (total)             | 12   | U   |
| 2000 20 1  |                            |      |     |
|            |                            | 1    | 1   |

| EPA | SAMPLE | NO |
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|     |        |    |

| Lab Name: ACCREDITED            | LABS, INC. C   | ontract:                                   | 21 10-11 |
|---------------------------------|----------------|--------------------------------------------|----------|
| Lab Code: 11109                 | Case No.: 8069 | SAS No.: SDG No                            | .:       |
| <pre>Matrix: (soil/water)</pre> | SOIL           | Lab Sample ID: 9                           | 800473   |
| Sample wt/vol:                  | 5.0 (g/mL) G   | Lab File ID: >                             | D4330    |
| Level: (low/med)                | LOW            | Date Received: 0                           | 1/13/98  |
| % Moisture: not dec.            | 14             | Date Analyzed: 0                           | 1/18/98  |
| GC Column: RTX-502              | ID: 0.53 (mm)  | Dilution Factor:                           | 1.0      |
| Soil Extract Volume:            | (uL)           | Soil Aliquot Vol                           | ume:(uL) |
| Number TICs found:              | 0              | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | •        |

| CAS NUMBER | COMPOUND NAME | RT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EST. CONC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |
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|            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - |
| •          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |

|   | Lab | Name: | ACCREDITE | D LABS, INC.   | Contract: | 1      | 20-9-10 |
|---|-----|-------|-----------|----------------|-----------|--------|---------|
| • | Lab | Code: | 11109     | Case No.: 8069 | SAS No.:  | SDG No | o.:     |

Matrix: (soil/water) SOIL

5.0 (g/mL) G

ID: 0.53 (mm)

COMPOUND

Lab Sample ID: 9800474

■ Level: (low/med) LOW

Sample wt/vol:

Date Received: 01/13/98

Lab File ID:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

% Moisture: not dec.

Date Analyzed: 01/19/98

➡ GC Column: RTX-502

CAS NO.

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

> D4342

74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 Ū 75-01-4-----Vinyl Chloride_ 10 IJ 75-00-3-----Chloroethane 10 U 75-09-2----Methylene Chloride 7 67-64-1-----Acetone Ū 10 75-15-0-----Carbon Disulfide Ū 10 75-35-4----1,1-Dichloroethene 10 U 75-34-3----1,1-Dichloroethane 10 U 540-59-0----1,2-Dichloroethene (total) 10 U 67-66-3-----Chloroform 10 U 107-06-2----1,2-Dichloroethane 10 Ū 78-93-3-----2-Butanone 10 U 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 П 75-27-4-----Bromodichloromethane 10 U 78-87-5----1,2-Dichloropropane 10 Ū 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6----Trichloroethene 10 U 124-48-1-----Dibromochloromethane 10 U 79-00-5----1,1,2-Trichloroethane 10 U 71-43-2----Benzene U 10 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2-----Bromoform 10 U 108-10-1----4-Methyl-2-Pentanone10 U 591-78-6----2-Hexanone 10 U 127-18-4----Tetrachloroethene U 10 79-34-5----1,1,2,2-Tetrachloroethane U 10 108-88-3-----Toluene 10 Ū 108-90-7-----Chlorobenzene 10 U 100-41-4-----Ethylbenzene 10 U 100-42-5-----Styrene_ 10 U 1330-20-7-----Xylene (total) 10 U

| EPA | SAMPLE | NO |
|-----|--------|----|
|     |        |    |

|     |       |            |       |      |           | 20-9-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|-------|------------|-------|------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lab | Name: | ACCREDITED | LABS, | INC. | Contract: | Mark on Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon and Angelon an |

SAS No.: ____ SDG No.: 

Matrix: (soil/water) SOIL Lab Sample ID: 9800474

5.0 (g/mL) G Sample wt/vol: Lab File ID: >D4342

Level: (low/med) LOW Date Received: 01/13/98

% Moisture: not dec. 4 Date Analyzed: 01/19/98

GC Column: RTX-502 Dilution Factor: 1.0 ID: 0.53 (mm)

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

Number TICs found: (ug/L or ug/Kg) UG/KG

| CAS NUMBER                                                                                                          | COMPOUND NAME                                                                                                                                                                  | RT | EST. CONC.                                         | Q                                         |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------|-------------------------------------------|
| 1. 556672 2. 3. 4. 55. 66. 77. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29 | Cyclotetrasiloxane, octametr<br>Unknown<br>Unknown Hydrocarbon<br>Unknown Hydrocarbon<br>Unknown Hydrocarbon<br>Unknown Hydrocarbon<br>Unknown Hydrocarbon<br>Unknown Aromatic |    | 210<br>10<br>10<br>12<br>52<br>9<br>7<br>60<br>110 | N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N |

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

20-3-4

| Lab Name: ACCREDITED LABS, INC. Contrac | ct:                                       |
|-----------------------------------------|-------------------------------------------|
| Lab Code: 11109 Case No.: 8069 SAS No.  | o.: SDG No.:                              |
| Matrix: (soil/water) SOIL               | Lab Sample ID: 9800475                    |
| Sample wt/vol: 5.0 (g/mL) G             | Lab File ID: >D4341                       |
| Level: (low/med) LOW                    | Date Received: 01/13/98                   |
| % Moisture: not dec. 10                 | Date Analyzed: 01/19/98                   |
| ■ GC Column: RTX-502 ID: 0.53 (mm)      | Dilution Factor: 1.0                      |
| Soil Extract Volume:(uL)                | Soil Aliquot Volume:(uL)                  |
|                                         | CENTRATION UNITS:<br>/L or ug/Kg) UG/KG Q |
| 74-87-3                                 | 11 U U 11 U U 11 U U U U U U U U U U U    |

124-48-1-----Dibromochloromethane

108-10-1-----4-Methyl-2-Pentanone

127-18-4----Tetrachloroethene

71-43-2----Benzene

108-88-3-----Toluene

75-25-2----Bromoform

591-78-6----2-Hexanone

108-90-7-----Chlorobenzene

100-41-4-----Ethylbenzene 100-42-5-----Styrene

1330-20-7-----Xylene (total)

79-00-5----1,1,2-Trichloroethane

10061-02-6----trans-1,3-Dichloropropene

79-34-5----1,1,2,2-Tetrachloroethane

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| EPA | SAMPLE | NO |
|-----|--------|----|
|     |        |    |

20-3-4

| Lab Name: ACCREDITED LABS, INC.  | Contract:                |
|----------------------------------|--------------------------|
| Lab Code: 11109                  | SAS No.: SDG No.:        |
| Matrix: (soil/water) SOIL        | Lab Sample ID: 9800475   |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >D4341      |
| Level: (low/med) LOW             | Date Received: 01/13/98  |
| % Moisture: not dec. 10          | Date Analyzed: 01/19/98  |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0     |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL) |

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NUMBER     | COMPOUND NAME                  | RT             | EST. CONC. | Q<br>====                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------|--------------------------------|----------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.<br>2.<br>3. | Unknown Hydrocarbon<br>Unknown | 29.30<br>33.59 | 19<br>26   | N<br>N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4.<br>5.<br>6. |                                |                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7.<br>8.<br>9. |                                |                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1.<br>2.       |                                |                |            | - 14 Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Miles (Mile |
| 4<br>5         |                                |                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7.<br>8.<br>9. |                                |                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1              |                                |                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3              |                                |                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5.<br>7.<br>3. |                                |                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ə              |                                |                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Lab Name: ACCREDITED                                                                                                                                                                                                                                    | LABS, INC. Contract                                                                                                                                                                                                                                                                                                                                                                                                                                        | :                | VBLKD11      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|
|                                                                                                                                                                                                                                                         | Case No.: 8069 LMC SAS No.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  | · :          |
| •                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <del></del>      | 1D 1 1/D 1 1 |
| Matrix: (soil/water)                                                                                                                                                                                                                                    | SOIL                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Lab Sample ID: V | RTKDII       |
| Sample wt/vol:                                                                                                                                                                                                                                          | 5.0 (g/mL) G                                                                                                                                                                                                                                                                                                                                                                                                                                               | Lab File ID: >   | D4303        |
| Level: (low/med)                                                                                                                                                                                                                                        | LOW                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Date Received: 0 | 1/16/98      |
| % Moisture: not dec.                                                                                                                                                                                                                                    | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date Analyzed: 0 | 1/16/98      |
| GC Column: RTX-502                                                                                                                                                                                                                                      | ID: 0.53 (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                              | Dilution Factor: | 1.0          |
| Soil Extract Volume:                                                                                                                                                                                                                                    | (uL)                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Soil Aliquot Vol | ume:(uL)     |
|                                                                                                                                                                                                                                                         | CONCE                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NTRATION UNITS:  |              |
| CAS NO.                                                                                                                                                                                                                                                 | COMPOUND (ug/L                                                                                                                                                                                                                                                                                                                                                                                                                                             | or ug/Kg) UG/KG  | Q            |
| 74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-35-4 75-34-3 75-34-3 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 124-48-1 79-00-5 10061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 79-34-5 108-88-3 108-90-7 100-41-4 100-42-5 | Carbon Disulfide1,1-Dichloroethene1,1-Dichloroethene1,2-Dichloroethene (totChloroform1,2-Dichloroethane1,1-Trichloroethane2-Butanone1,1,1-TrichloroethaneCarbon TetrachlorideBromodichloromethane1,2-Dichloropropanecis-1,3-DichloropropeneTrichloroetheneDibromochloromethane1,1,2-TrichloroethaneBenzenetrans-1,3-DichloropropeBromoform4-Methyl-2-Pentanone2-Hexanone2-HexanoneTetrachloroethene1,1,2,2-TetrachloroethaTolueneChlorobenzeneEthylbenzene | ene              | 10           |

| EPA         | SAMPLE | ИО |
|-------------|--------|----|
| ··········· |        | 1  |

|     |       |            | 1 EW    | TALLVELI | 10  | ENTIFIED COMPOUNDS |       | VBLKD11   |
|-----|-------|------------|---------|----------|-----|--------------------|-------|-----------|
| Lab | Name: | ACCREDITED | LABS,   | INC.     |     | Contract:          | _     | V D D I L |
| Lab | Code: | 11109      | Case No | . : 8069 | unc | SAS No.:           | SDG N | ο.:       |

Matrix: (soil/water) SOIL Lab Sample ID: VBLKD11

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4303

Level: (low/med) LOW Date Received: 01/16/98

% Moisture: not dec. 0
Date Analyzed: 01/16/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) UG/KG

|                                 |           | VBLKD12 |
|---------------------------------|-----------|---------|
| Lab Name: ACCREDITED LABS, INC. | Contract: |         |

Lab Code: 11109 Case No.: 8069 UMC SAS No.: _____ SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: VBLKD12

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D4318

■ Level: (low/med) LOW Date Received: 01/17/98

% Moisture: not dec. 0
Date Analyzed: 01/17/98

■ GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

|                                     | T    | -r    |
|-------------------------------------|------|-------|
| 74-87-3Chloromethane                | 10   | U     |
| 74-83-9Bromomethane                 | 10   | U     |
| 75-01-4Vinyl Chloride               | 10   | ${U}$ |
| 75-00-3Chloroethane                 | 10   | U     |
| 75-09-2Methylene Chloride           | 10   | u     |
| 67-64-1Acetone                      | 10   | U     |
| 75-15-0Carbon Disulfide             | 10   | U     |
| 75-35-41,1-Dichloroethene           | 10   | U     |
| 75-34-31,1-Dichloroethane           | 10   |       |
| 540-59-01,2-Dichloroethene (total)  | 10   | t     |
| 67-66-3Chloroform                   | 10   | U     |
| 107-06-21,2-Dichloroethane          | 10   | U     |
| 78-93-32-Butanone                   | 10   |       |
| 71-55-61,1,1-Trichloroethane        | 10   | U     |
| 56-23-5Carbon Tetrachloride         | 10   | U     |
| 75-27-4Bromodichloromethane         | 10   | U     |
| 78-87-51,2-Dichloropropane          | 10   | U     |
| 10061-01-5cis-1,3-Dichloropropene   | 10   | U     |
| 79-01-6Trichloroethene              | 10   | U     |
| 124-48-1Dibromochloromethane        | 10   | U     |
| 79-00-51,1,2-Trichloroethane        | 10   | U     |
| 71-43-2Benzene                      | 10   | U     |
| 10061-02-6trans-1,3-Dichloropropene | 10   | U     |
| 75-25-2Bromoform                    | 10   | U     |
| 108-10-14-Methyl-2-Pentanone        | 10   | U     |
| 591-78-62-Hexanone                  | 10   | U     |
| 127-18-4Tetrachloroethene           | 10   | U     |
| 79-34-51,1,2,2-Tetrachloroethane    | 10   | u     |
| 108-88-3Toluene                     | 10   | U     |
| 108-90-7Chlorobenzene               | 10   | U     |
| 100-41-4Ethylbenzene                | 10   | U     |
| 100-42-5Styrene                     | ` 10 | U     |
| 1330-20-7Xylene (total)             | 10   | U     |
| <del>-</del>                        |      |       |
|                                     |      | ·     |

| EPA | SAMPLE | NO   |
|-----|--------|------|
| *** |        | 1111 |

| V | В | L | ιK | D | 1 | 2 |
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| Lab Name: ACCREDITED            | LABS, INC. Con        | tract:                   |  |
|---------------------------------|-----------------------|--------------------------|--|
| Lab Code: 11109                 | Case No.: 8069 UMC SA | S No.: SDG No.:          |  |
| <pre>Matrix: (soil/water)</pre> | SOIL                  | Lab Sample ID: VBLKD12   |  |
| Sample wt/vol:                  | 5.0 (g/mL) G          | Lab File ID: >D4318      |  |
| Level: (low/med)                | LOW                   | Date Received: 01/17/98  |  |
| % Moisture: not dec.            | 0                     | Date Analyzed: 01/17/98  |  |
| GC Column: RTX-502              | ID: 0.53 (mm)         | Dilution Factor: 1.0     |  |
| Soil Extract Volume:            | (uL)                  | Soil Aliquot Volume:(uL) |  |
| Number TICs found:              |                       | CONCENTRATION UNITS:     |  |

| CAS NUMBER | COMPOUND N | IAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Ish Name: ACCREDIMEN                                                                                                                                                                                       | LARC THE Contract                                                                                                                                                                                                                                                                                                                                                |                  | VBLKC13  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|
| Lab Name: ACCREDITED                                                                                                                                                                                       | LABS, INC. Contract                                                                                                                                                                                                                                                                                                                                              | •                |          |
| Lab Code: 11109                                                                                                                                                                                            | Case No.: 8069 UHC SAS No.                                                                                                                                                                                                                                                                                                                                       | : SDG No         | o.:      |
| Matrix: (soil/water)                                                                                                                                                                                       | SOIL                                                                                                                                                                                                                                                                                                                                                             | Lab Sample ID: V | VBLKD13  |
| Sample wt/vol:                                                                                                                                                                                             | 5.0 (g/mL) G                                                                                                                                                                                                                                                                                                                                                     | Lab File ID:     | >D4340   |
| Level: (low/med)                                                                                                                                                                                           | LOW                                                                                                                                                                                                                                                                                                                                                              | Date Received: 0 | 01/19/98 |
| % Moisture: not dec.                                                                                                                                                                                       | 0                                                                                                                                                                                                                                                                                                                                                                | Date Analyzed: 0 | 01/19/98 |
| GC Column: RTX-502                                                                                                                                                                                         | ID: 0.53 (mm)                                                                                                                                                                                                                                                                                                                                                    | Dilution Factor: | 1.0      |
| Soil Extract Volume:                                                                                                                                                                                       | (uL)                                                                                                                                                                                                                                                                                                                                                             | Soil Aliquot Vol | ume:(uL) |
| •                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                  | NTRATION UNITS:  |          |
| CAS NO.                                                                                                                                                                                                    | COMPOUND (ug/L                                                                                                                                                                                                                                                                                                                                                   | or ug/Kg) UG/KG  | Q        |
| 74-83-9 75-01-4 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 75-27-4 78-87-5 10061-01-5 79-01-6 79-01-6 79-00-5 124-48-1 79-00-5 71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 | Carbon Disulfide1,1-Dichloroethene1,1-Dichloroethane1,2-Dichloroethene (totChloroform1,2-Dichloroethane2-Butanone1,1,1-TrichloroethaneCarbon TetrachlorideBromodichloromethane1,2-Dichloropropanecis-1,3-DichloropropeneTrichloroetheneDibromochloromethane1,1,2-Trichloroethane1,1,2-TrichloroethaneBenzenetrans-1,3-DichloropropeBromoform4-Methyl-2-Pentanone | al)              | 10       |

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79-34-5----1,1,2,2-Tetrachloroethane

108-88-3-----Toluene

108-90-7-----Chlorobenzene

100-41-4-----Ethylbenzene 100-42-5-----Styrene 1330-20-7------Xylene (total)

| LPA | SAMPLE | NC       |
|-----|--------|----------|
|     |        | <b>P</b> |
|     |        |          |
| VE  | BLKC13 | 1        |

| Lab Name: ACCREDITED            | LABS, INC.         | Contract:            | VBLKC13     |
|---------------------------------|--------------------|----------------------|-------------|
| Lab Code: 11109                 | Case No.: 8069 LMC | SAS No.: SDG No      | ) <b>.:</b> |
| <pre>Matrix: (soil/water)</pre> | SOIL               | Lab Sample ID: V     | BLKD13      |
| Sample wt/vol:                  | 5.0 (g/mL) G       | Lab File ID:         | D4340       |
| Level: (low/med)                | LOW                | Date Received: (     | 1/19/98     |
| % Moisture: not dec.            | 0                  | Date Analyzed: (     | 1/19/98     |
| GC Column: RTX-502              | ID: 0.53 (mm)      | Dilution Factor:     | 1.0         |
| Soil Extract Volume:            | (uL)               | Soil Aliquot Vol     | ume:(uL)    |
|                                 |                    | CONCENTRATION UNITS: | 1           |

Number TICs found: 1

(ug/L or ug/Kg) UG/KG

| CAS NUMBER                                           | COMPOUND NAME                          | RT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EST. CONC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |
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#### U.S. EPA - CLP

#### COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

| Lab Name: ACC                                           | CREDITED_LABS_INC                                                                                                                                                  | Contract:                                                                                                                      |                                                                          |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| miab Code:                                              | Case No.: 8069_                                                                                                                                                    | SAS No.:                                                                                                                       | SDG No.:8039                                                             |
| BOW No.: ILMO                                           | 03.0                                                                                                                                                               | •                                                                                                                              |                                                                          |
|                                                         | EPA Sample No. FIELD B  12 SLUD  13 SLUD  13 SLUD  14 (15-1  14 (15-1  14 (15-1  17 (21-2  17 (21-2  17 (21-2  20 (3-4)  25 (3-4)                                  | Lab Sample ID 9800388 -9800387 -9800387D -9800387S -9800389 -9800389D -9800389S -9800392 -9800420D -9800420D -9800475 -9800470 |                                                                          |
| Vere ICP inte                                           | relement corrections app                                                                                                                                           | lied ?                                                                                                                         | Yes/No YES                                                               |
|                                                         | ground corrections appli                                                                                                                                           |                                                                                                                                | Yes/No YES                                                               |
|                                                         | were raw data generated ion of background correc                                                                                                                   |                                                                                                                                | Yes/No NO_                                                               |
| Comments:                                               |                                                                                                                                                                    |                                                                                                                                |                                                                          |
|                                                         |                                                                                                                                                                    |                                                                                                                                |                                                                          |
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| conditions of pther than th in this hardo on floppy dis | t this data package is i<br>the contract, both tech<br>e conditions detailed ab<br>opy data package and in<br>kette has been authorize<br>ignee, as verified by th | nically and for compove. Release of the the computer-readable by the Laboratory                                                | oleteness, for<br>e data contained<br>e data submitted<br>Manager or the |
| Signature: _                                            |                                                                                                                                                                    | Name:                                                                                                                          |                                                                          |
| Date: _                                                 |                                                                                                                                                                    | Title:                                                                                                                         | <b>2</b>                                                                 |
|                                                         |                                                                                                                                                                    |                                                                                                                                | 80                                                                       |

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#### U.S. EPA - CLP

# 1 EPA SAMPLE NO. INORGANIC ANALYSES DATA SHEET

|                                         |                        | THOROMITE             | MADIDLO DAIA    | ~11 |              |                |         |        |
|-----------------------------------------|------------------------|-----------------------|-----------------|-----|--------------|----------------|---------|--------|
| Lab Name: ACC                           | REDITED LABS           | INC.                  | Contract:       |     |              |                | 25 (3-4 | 1)     |
| Lab Name: ACCREDITED_LABS_INC Contract: |                        |                       |                 |     |              |                | <u></u> |        |
| Lab Code:                               | Ca                     | se No.: 80            | 69 SAS No.      | :   |              | SDG            | No.:    | 8039   |
| Matrix (soil/w                          | water): SOIL           |                       |                 | L   | ab Samp      | le ID:         | 9800    | 0470   |
| Level (low/med                          | l): LOW_               | <b></b>               |                 | D   | ate Rec      | eived:         | 01/1    | 3/98   |
| % Solids:                               | _93.                   | 6                     |                 |     |              |                |         |        |
| Co                                      | ncentration            | Units (ua             | /L or mg/kg dr  | v 1 | weight)      | : MG/K         | rg.     |        |
|                                         |                        |                       | , z or mg/ng or | 1   |              |                |         |        |
|                                         | CAS No.                | Analyte               | Concentration   | С   | Q            | м              |         |        |
|                                         | 7429-90-5              | Aluminum              | 2220            | -   | E*           | P              |         |        |
|                                         | 7440-36-0              | Antimony -            | 5.7             |     |              | P ⁻ |         |        |
|                                         | 7440-38-2              | Arsenic               | 0.48            |     |              | F              |         |        |
|                                         | 7440-39-3              | Barium                | 12.7            | В   | EN*          | P              |         |        |
|                                         | 7440-41-7              | Beryllium             | 0.13            | В   | _ N          | P              |         |        |
|                                         | 7440-43-9              | Cadmium               | 0.82            | U   | N*           | P              |         |        |
|                                         | 7440-70-2              | Calcium               | 323             | В   | E*           | P              |         |        |
|                                         | 7440-47-3              | Chromium              | 3.3             |     | N            | P              |         |        |
|                                         | 7440-48-4              | Cobalt                | 1.3             |     | N            | P_             |         |        |
|                                         | 7440-50-8              | Copper                | 4.3             |     | _EN*_        | P_             |         |        |
|                                         | 7439-89-6              | Iron                  | 3480            | _   | E*           | P_             |         |        |
|                                         | 7439-92-1              | Lead                  | 2.5             | _   | _и           | F_             |         |        |
|                                         |                        | Magnesium             | 352             | В   | E            | P_             |         |        |
|                                         |                        | Manganese             | 49.6            | ==  | _EN*         | P              |         |        |
|                                         | •                      | Mercury               | 0.10            |     | N            | CV             |         |        |
|                                         | 7440-02-0              | Nickel                | 1.5             |     | N*           | P_             |         |        |
|                                         |                        | Potassium<br>Selenium | 198<br>0.42     |     |              | P_<br>F_       |         |        |
|                                         | 7782-49-2<br>7440-22-4 |                       | 2.1             |     |              | P-             |         |        |
|                                         |                        | Sodium                | 147             |     | — <u>*</u> — | P -            |         |        |
|                                         | 7440-28-0              | Thallium              | 0.29            |     |              | P_<br>F        |         |        |
|                                         | 7440-62-2              | Vanadium_             | 5.4             | В   | N            | P-             |         |        |
|                                         | 7440-66-6              | Zinc                  | 16.2            |     | EN*          | P              |         |        |
|                                         |                        | Cyanide               | 0.02            | Ū   |              | c              |         |        |
|                                         |                        |                       |                 |     |              |                |         |        |
| Color Before:                           | BROWN                  | Clarit                | cy Before: OPAG | QUE | Ξ            | Textu          | re:     | MEDIUM |
| Color After:                            | COLORLESS              | Clarit                | v After: CLE    | Q Z |              | Artif          | acte.   |        |

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Comments:

#### 1 TNORGANIC ANALYSES DATA SHEET

| EPA | SAMPLE | NO. |
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|                       |                                         | THOUGHITC                                    | MINDISES DAIN                                         | اشلاد                                 | Li A             | ,                                                                              |        |
|-----------------------|-----------------------------------------|----------------------------------------------|-------------------------------------------------------|---------------------------------------|------------------|--------------------------------------------------------------------------------|--------|
| <b>■</b> Lab Name: AC | CREDITED LARS                           | INC.                                         | Contract: _                                           |                                       |                  | 20(3-4                                                                         | .)     |
|                       |                                         |                                              |                                                       |                                       |                  |                                                                                |        |
| Jab Code:             | Ca                                      | se No.: 80                                   | 69 SAS No.                                            | :                                     |                  | SDG No.:                                                                       | 8039   |
| Matrix (soil          | /water): SOII                           | <u>,                                    </u> |                                                       | Lal                                   | o Samp           | ole ID: 9800                                                                   | 475    |
| _evel (low/m          | ed): LOW_                               |                                              |                                                       | Dat                                   | te Rec           | eived: 01/1                                                                    | 3/98   |
| % Solids:             | _90.                                    | 1                                            |                                                       |                                       |                  |                                                                                |        |
| -                     | Concentration                           | Units (ug                                    | /L or mg/kg dr                                        | у <b>w</b> e                          | eight)           | : MG/KG                                                                        |        |
| •                     | CAS No.                                 | Analyte                                      | Concentration                                         | С                                     | Q                | M                                                                              |        |
| _                     |                                         |                                              |                                                       |                                       |                  | .                                                                              |        |
|                       | 7429-90-5                               | Aluminum_                                    | 6060                                                  |                                       | E*               | P_                                                                             |        |
| _                     | 7440-36-0                               | Antimony_                                    | 6.0                                                   |                                       | N                | P_                                                                             |        |
| •                     | 7440-38-2                               | Arsenic                                      | 0.51                                                  |                                       |                  | F_                                                                             |        |
|                       | 7440-39-3                               | Barium                                       | 20.8                                                  |                                       | EN*              | P_                                                                             |        |
|                       | 7440-41-7                               | Beryllium                                    | 0.37                                                  | · · · · · · · · · · · · · · · · · · · | N                | P_                                                                             |        |
| Ŀ                     | 7440-43-9                               | · —                                          | 1.4                                                   |                                       | _ <u>n*</u>      | P_                                                                             |        |
|                       | 7440-70-2                               | Calcium_                                     | 43300                                                 |                                       | _E*              | P_                                                                             |        |
|                       | 7440-47-3                               | Chromium_                                    | 10.6                                                  |                                       | N                | P_                                                                             |        |
|                       | 7440-48-4                               | Cobalt                                       | 3.4                                                   |                                       | _N               | P_                                                                             |        |
|                       | 7440-50-8                               | Copper                                       | 14.9                                                  | _ -                                   | EN*              | P P                                                                            |        |
|                       | 7439-89-6                               | Iron                                         | 10300                                                 | -1-                                   | E*               | F-                                                                             |        |
|                       | 7439-92-1                               | Lead                                         | 7.4                                                   | - -                                   | _ <u>N</u>       | P P                                                                            |        |
| <del>-</del>          | 7439-95-4                               | 1 -                                          | 24200                                                 |                                       | E<br>_EN*        | P P                                                                            |        |
|                       | 7439-96-5<br>7439-97-6                  | Manganese                                    | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | <del></del>                           | N                | $\begin{vmatrix} \mathbf{r} \\ \mathbf{c} \mathbf{\overline{V}} \end{vmatrix}$ |        |
|                       | 7440-02-0                               | Mercury<br>Nickel                            | 9.1                                                   |                                       | N*               | 1                                                                              |        |
| ,                     | 7440-02-0                               |                                              | 644                                                   | <u>-</u> -                            |                  | P<br>P                                                                         |        |
|                       | 7782-49-2                               |                                              | 0.44                                                  | - D                                   |                  | F-                                                                             |        |
|                       | 7440-22-4                               |                                              | 4.6                                                   |                                       | N*               | P-                                                                             |        |
| Li .                  | 7440-22-4                               | Sodium Sodium                                | 224                                                   | - B                                   | <del>'</del> \'' | P-                                                                             |        |
|                       | 7440-23-3                               | Thallium                                     | 0.31                                                  |                                       |                  | F-                                                                             |        |
|                       | 7440-62-2                               | Vanadium_                                    | 12.2                                                  |                                       |                  | P                                                                              |        |
| ¥                     | 7440-66-6                               | Zinc                                         | 32.2                                                  | - -                                   | EN*              | P                                                                              |        |
|                       | , , , , , , , , , , , , , , , , , , , , | Cyanide                                      | 0.02                                                  | $ \overline{v} ^{-}$                  |                  | c ⁻                                                                 |        |
|                       |                                         | ***************************************      |                                                       |                                       |                  | <u>                                     </u>                                   |        |
| Color Before          | : BROWN                                 | Clarit                                       | cy Before: OPAG                                       | QUE                                   |                  | Texture:                                                                       | MEDIUM |
| Color After:          | COLORLESS                               | Clarit                                       | ty After: CLEA                                        | AR_                                   |                  | Artifacts:                                                                     |        |
| Comments:             |                                         |                                              |                                                       |                                       |                  | ·                                                                              |        |
| <del></del>           |                                         |                                              |                                                       |                                       |                  |                                                                                |        |
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# Exhibit P

# NEW YORK STATE SUPERFUND CONTRACT FOCUSED REMEDIAL INVESTIGATION REPORT Volume IV Appendix H Continued

Former LAKA Industries Site Site No. 1-30-043K

Work Assignment No. D002676-27.1

DATE: November 1998



Prepared for:

# New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233 John Cahill, Commissioner

Division of Environmental Remediation Michael J. O'Toole, Jr., *Director* 

By:
Lawler, Matusky & Skelly Engineers LLP

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APPENDIX H

(CONTINUED)

PROBE SAMPLE ANALYTICAL DATA SUMMARY SHEETS

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## ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

#### Analytical Data Report

for

L M S One Blue Hill Plaza Pearl River, NY 10965

Project: N Y S D E C L A K A

Accredited Laboratories Case No.: 1781 Date Received: 09/21/98

T - 1 - - - + - - - - -

| Field ID | Sample # |
|----------|----------|
| W1 92-93 | 9810777  |
| W1 72-73 | 9810778  |
| W1 62-63 | 9810779  |

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

OCT 2 3 1998

For Hazardous Waste Section

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Yun-shen Lee, Ph.D. Technical Director

(732) 541-2025

Invoice

Invoice Number

13056

Invoice Date

Sep 30, 199-

Page:

COPY

Voice: Fax:

USA

732-541-2025 732-541-1383

Accredited Laboratories Inc.

20 Pershing Avenue Carteret, NJ 07008

Sold To:

Ship to:

L M S ENGINEERS ONE BLUE HILL PLAZA, PO BOX 15 ATT: FINANCE DIV/MARIA HEINCZ PEARL RIVER, NY 10965

L M S ENGINEERS ONE BLUE HILL PLAZA, PO BOX 15 ATT: FINANCE DIV./MARIA HEINCZ PEARL RIVER, NY 10965

| Customer ID  | Customer PO     | Payment Terms |          |  |
|--------------|-----------------|---------------|----------|--|
| LM0999       |                 | Net 3         | ) Days   |  |
| Sales Rep ID | Shipping Method | Ship Date     | Due Date |  |
| WU1          | US Mail         |               | 10/30/98 |  |

| Quantity     | ltem | Description                                 | Unit Price        | Extension |
|--------------|------|---------------------------------------------|-------------------|-----------|
| 5.00<br>1.00 |      | EPA 624/8240 VO MS/MSD<br>5 DAY TAT X 1.25% | 90.00<br>112.50   |           |
|              |      | Case#: C-1781<br>5 DAY TAT                  |                   | -         |
|              |      | NYSDEC LAKA                                 |                   |           |
|              |      |                                             |                   | _         |
|              |      |                                             |                   |           |
|              |      |                                             | WLER, MATUSKY     |           |
|              |      |                                             | OCT 2 3 1998      |           |
|              |      | For                                         | Hazardous Waste S | ection -  |
|              |      |                                             |                   |           |

| Subtotal             | 562.5^ |
|----------------------|--------|
| Sales Tax            |        |
| Total Invoice Amount | 562.50 |
| Payment Received     | 0.0    |
| TOTAL                | 562.50 |

Check No:

DELIVERABLES (circle one)

#### ACCREDITED LABORATORIES, INC.

## CHAIN OF CUSTODY FORM

| ARTERET, NEW JERSEY 07008<br>HONE: (732) 541-2025 / (800) ALI-LABS | PAGE | OF | <u>t</u> |
|--------------------------------------------------------------------|------|----|----------|
|--------------------------------------------------------------------|------|----|----------|

| CLIENT  | LMS Engine    | ers  |       | PROJECT | NYSDEC LAKA  |
|---------|---------------|------|-------|---------|--------------|
| ADDRESS | ONe Blue Hill | Plaz | a     | CONTACT | Maria Heinez |
| CITY    | Pearl River   |      |       | PHONE   | 914-735-8300 |
| STATE   | NY            | ZIP  | 10965 | FAX     | 914-735-7466 |

| -                                                  |                                                        |          | <del></del>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                                                    | FIELD ID                                               |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | AVALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 9810777                                            | FLGP-W1(92-9                                           | 3)2      | .A              | 1/18/98 0950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | probe waters         | VOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 9010778                                            | 1/LGP-W1(+2-73                                         | 3/ d     | A               | 1/18/98 1120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | probe waters         | Voc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                    | FLGP-W1(72-73)MS                                       | 5 2      | A               | 9/18/98 1120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | probe waters - MS.   | Voc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                    | FLGP-W1 (72-73) MSD                                    | D a      | A               | 9/18/98 1120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | probe waters - MSD   | Voc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 9810779                                            | FLGP-W1 (62-63)                                        | )2       | A               | 9/18/88 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | probe waters         | Voc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                    | trip blank                                             | 101      | A               | 9/18/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | trip black           | Voć                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                    |                                                        |          |                 | 129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | LAWLER, MATUSKY &                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                    | <del> </del>                                           |          | 4               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S                    | KELLY ENGINEERS LLP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                    | <del> </del>                                           | <u>i</u> | -               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| M ≅ MATRIX                                         | F A=AQUEOUS                                            | SS       | OL              | G≟SLUDGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PEROTABLE WATER: 0=0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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CLP I

CLP II

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#### SDG NARRATIVE

Accredited Labs received 3 aqueous samples (Project: NYSDEC LAKA; ALI Case #1781) from LMS Engineers on 9/21/98 for the analyses of Volatile Organics. The Volatile analysis was based on NYSDEC-ASP 95-1.

All analyses were performed within the required holding time.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Theodore C. Gaydos Technical Director

# Λ

#### ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FORM_

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

|      | 1 |    |     |
|------|---|----|-----|
| PAGE | Ī | OF | Į – |

| CLIENT  | LMS Engineers       |
|---------|---------------------|
| ADDRESS | ONe Blue Hill Plaza |
| CITY    | Pearl River         |
| STATE   | NY ZIP 10965        |

|         |              | _ |
|---------|--------------|---|
| PROJECT | NYSDEC LAKA  |   |
| CONTACT | Maria Heinez |   |
| PHONE   | 914-735-8300 |   |
| FAX     | 914-735-7466 |   |

| <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ,                  |     | 1   |              |                        |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|-----|--------------|------------------------|-----------------------------|
| ALI SAMPLE #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FIELD ID           | _   | **M | SAMPLED      | SAMPLE DESCRIPTION     | ANALYSIS                    |
| 9810777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FLGP-W1(92-93      | ٦)  | A   | 1/18/98 0950 | probe waters           | VOC                         |
| 3010778                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1/26P-W1(72-73)    | 14  | A   | 1/18/98 1150 | probe waters           | VOC                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FLGP-W1(72-73)MS   | 2   | A   | 9/18/98 1120 | probe waters - MS      | Voc                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FLGP-W1 (72-73)M5D | ત   | A   | 9/18/98 1120 | probe waters - MSD     | Voc                         |
| 9810779                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FLGP-W1 (62-63)    | 2   | A   | 9/18/98 1200 | probe waters           | VOC -                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | temperature blank  |     |     | 9/18/98      | temp. blank            | temperature                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | trip blank         | 12  | A   | 9/18/98      | trip black             | Voc                         |
| ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - C                | زز  | 1   |              |                        |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |     | X/  | 34           |                        |                             |
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| **M = MATRIX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A=AQUEOUS          | S=S | OIL | G=SLUDGE     | P≟POTABLE WATER :::0=0 | IL F=FILTER K-SOLIO X-OTHER |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |     |     | i iyasta     |                        |                             |

| *C = NO. CONTAINERS       | TURNAROUND | = 7 day        | <b>/</b> .       |           | (If Blan                    | nk, Std. 3 weekel  |
|---------------------------|------------|----------------|------------------|-----------|-----------------------------|--------------------|
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| Sant G. England Add.      | 2 - 98 mg  |                | ali.             | B         | = 96.1 m                    |                    |
| PERSON(S) ASSUMING RESPON |            | MPLING: PRINT: | Mayor<br>Scott G | ENJARTSIO | [ 1/21/98/0<br>GN: 1/2/98/0 | S. Eglet           |
| COMMENTS .                | ~ 21°C     |                |                  |           | QUOTE#                      | ⊘<br>0178 <b>T</b> |

# Accredited Laboratories, Inc. INTERNAL CHAIN OF CUSTODY

| Seal on   | Sample               | son Breakin<br>Shuttle & ,<br>for Sample | Accepting                               | atory: Accredited Laborat |                         |            |                                  |
|-----------|----------------------|------------------------------------------|-----------------------------------------|---------------------------|-------------------------|------------|----------------------------------|
| Field S   | ample Se             | eal No                                   | new                                     | Date Broken://_           | Military                | Time Seal  | Broken                           |
| Case No   |                      | 1781                                     |                                         | Check if No Seal on       | Sample Shuttle          | •          |                                  |
| ]         | Field                | l #                                      | Laboratory #                            | # Test Name               | Date Sa                 | ampled     | Date Received                    |
| W1        | 92-9<br>72-7<br>62-6 | 3                                        | 9810777<br>9810778<br>9810779           | VO<br>VO<br>VO            | 09/18<br>09/18<br>09/18 | 3/98       | 09/21/98<br>09/21/98<br>09/21/98 |
| DATE      | TIME                 | RELINQUISE                               | HED BY                                  | RECEIVED BY               |                         | PUR        | POSE OF CHANGE OF CUSTODY        |
| 10/12/78  |                      | Printed Na<br>Signature                  | M. ANTONELL                             | Printed Name W.L.         | lovente<br>Clourt       | ;<br> <br> | ANALYSIS                         |
|           | <br>                 | Printed Na                               | 1 covere es                             | Printed Name              | course of               | <br>       |                                  |
|           |                      | Signature                                |                                         | Signature                 | A. 2                    |            |                                  |
|           |                      | Printed Na                               | ame                                     | Printed Name              |                         |            |                                  |
|           |                      | Signature                                |                                         | Signature                 |                         | !<br>!     |                                  |
| l<br>i    |                      | Printed Na                               | ame                                     | Printed Name              |                         |            |                                  |
|           |                      | Signature                                |                                         | Signature                 |                         |            |                                  |
|           |                      | Printed Na                               | me                                      | Printed Name              |                         |            |                                  |
| Signature |                      |                                          | Signature                               |                           |                         |            |                                  |
|           |                      | Printed Na                               | me                                      | Printed Name              |                         |            |                                  |
|           |                      | Signature                                | *************************************** | Signature                 |                         |            |                                  |
| i<br>     |                      | Printed Na                               | ine                                     | Printed Name              |                         |            |                                  |
| i         |                      | Signature                                |                                         | Signature                 | i                       |            |                                  |

291COC

Date: 10/07/98

ACCREDITED LABORATORIES, INC.

Time: 14:14:

#### ORGANIC ANALYSIS LABORATORY CHRONICLE

| ! | 9810778 MS/MSI            | ; REVISED   | 10/2   | PROCEEDWITH                                 | ANALYSIS,  | FAX 10/7               |        |          | - |
|---|---------------------------|-------------|--------|---------------------------------------------|------------|------------------------|--------|----------|---|
|   | Client: L M S             | 3           | For    | Data Duct 00                                | /24/00     | Test Date<br>Hard Copy | Due:   | 10/02/98 |   |
|   | Client Projec             | ct Name: N  |        | Data Due: <b>09</b> ,<br>D E C <b>L</b> A K |            | нага сору              | Due:   | 10/01/98 | • |
|   | Date Sampled:             | 09/18/98    | Date 1 | Received:09/2                               | 21/98 Repo | rt Package             | : Othe | er       |   |
|   | Test: VO<br>Test Descript | ion.Volat   | ilo O  | ranias (VO)                                 |            |                        | QC#:_  |          |   |
|   | rest bescript             | Jon. voiac. | iie o. | rganics (vo)                                |            |                        |        |          |   |
|   |                           | By Metl     | nod:   |                                             |            |                        |        |          |   |

| SAMPL                            | E IDENTI | FICATION                      | M           | EXT  | TRACTION |      | ANA      | ALYSIS                  | TIC   |
|----------------------------------|----------|-------------------------------|-------------|------|----------|------|----------|-------------------------|-------|
| Field#                           | Case#    | Sample#                       | X           | Date | Time     | Init | Date     | Time                    | Init_ |
| W1 92-93<br>W1 72-73<br>W1 62-63 | 1781     | 9810777<br>9810778<br>9810779 | A<br>A<br>A |      |          |      | 10/12/98 | 17:20<br>17:59<br>18:38 | W.L.  |

CLP (Superfund) as per Wi. 10/8/28 D. A.

| Reviewed by: $QQ$ D | Date: 10/14/98 |  |
|---------------------|----------------|--|
|---------------------|----------------|--|

Abreviations: Sample Matrix:

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge X=Other RPT:Report(

4

# Qualifiers (Organics)

The EPA-defined qualifiers to be used in the organic analysis are as follows:

- U Indicates compound was analyzed for but not detected.
- J Indicates an estimated value. The flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, 2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL but greater than zero, 3) when the retention time data indicate the presence of a compound that meets the pesticide/Aroclor identification criteria and the result is less than the CRQL but greater than zero.
- N Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- C This flag applies to pesticide results where the <u>identification</u> has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in QA/QC requirements, the sample or extract must be diluted and re-analyzed according to the specifications in QA/QC requirements. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and <u>all</u> concentration values reported on that Form I are flagged with the "D" flag.
- A This flag indicates that a TIC is a suspected aldol-condensation product.

# 2A WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

| Lab | Name: | ACCREDITED | LABS, | INC. | Contract: |  |
|-----|-------|------------|-------|------|-----------|--|
|-----|-------|------------|-------|------|-----------|--|

Lab code: 11109 Case No.: SAS No.: SDG No.:

|          | EPA        | SMC1   | SMC2   | SMC3                                    | OTHER | TOT |
|----------|------------|--------|--------|-----------------------------------------|-------|-----|
|          | SAMPLE NO. | (TOL)# | (BFB)# | (DCE)#                                  |       | OUT |
|          |            | ====== | ====== |                                         |       | === |
| 01       | VBLKC83    | 96     | 90     | 100                                     | :     | 0   |
| 02       | VBLKC84    | 91     | 87     | 94                                      |       | 0   |
| 03       | HBLK02     | 98     | 96     | 103                                     |       | 0   |
| 04       | W1 92-93   | 96     | 95     | 101                                     |       | 0   |
| 05       | W19293DL   | 92D    | 90D    | 98D                                     |       | 0   |
| 06       | W1 72-73   | 98     | 93     | 103                                     |       | 0   |
| 07       | W1 62-63   | 97     | 96     | 104                                     |       | 0   |
| 08       | 72-73MS    | 98     | 96     | 103                                     |       | 0   |
| 09       | 72-73MSD   | 98     | 97     | 105                                     |       | 0   |
| 10       | BLANKMS    | 98     | 96     | 105                                     |       | 0   |
| 11       | BLANKMSD   | 98     | 94     | 104                                     |       | 0   |
| 12       |            |        |        |                                         |       |     |
| 13       |            |        |        |                                         |       |     |
| 14       |            |        |        |                                         |       |     |
| 15       |            |        |        |                                         |       |     |
| 16<br>17 |            |        |        |                                         |       |     |
| 18       |            |        |        |                                         |       |     |
| 19       |            |        |        |                                         |       |     |
| 20       |            |        |        |                                         |       |     |
| 21       |            |        |        | *************************************** |       |     |
| 22       |            |        |        |                                         |       |     |
| 23       |            |        |        |                                         |       |     |
| 24       |            |        |        |                                         |       |     |
| 25       |            |        |        |                                         |       |     |
| 26       |            |        |        |                                         |       |     |
| 27       |            |        |        |                                         | -     |     |
| 28       |            |        |        |                                         |       |     |
| 29       |            |        |        |                                         |       |     |
| 30       |            |        |        |                                         | -     |     |

SMC1 (TOL) = Toluene-d8 (88-110) SMC2 (BFB) = Bromofluorobenzene (86-115) SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

page 1 of 1

#### 3A WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCREDITED LABS, INC. Contract:

Matrix Spike - EPA Sample No.: VBLKC83

| COMPOUND           | SPIKE  | SAMPLE        | MS            | MS    | QC.    |
|--------------------|--------|---------------|---------------|-------|--------|
|                    | ADDED  | CONCENTRATION | CONCENTRATION | %     | LIMITS |
|                    | (ug/L) | (ug/L)        | (ug/L)        | REC # | REC.   |
| 1,1-Dichloroethene | 50     | 0             | 43            | 86    | 61-145 |
|                    | 50     | 0             | 46            | 92    | 71-120 |
|                    | 50     | 0             | 49            | 98    | 76-127 |
|                    | 50     | 0             | 49            | 98    | 76-125 |
|                    | 50     | 0             | 49            | 98    | 75-130 |

| -    | COMPOUND                              | SPIKE<br>ADDED<br>(ug/L) | MSD<br>CONCENTRATION<br>(ug/L) | MSD<br>%<br>REC # | %<br>RPD #  | QC L:<br>RPD   | MITS<br>REC.               |
|------|---------------------------------------|--------------------------|--------------------------------|-------------------|-------------|----------------|----------------------------|
| igas | 1,1-Dichloroethene<br>Trichloroethene | 50<br>50                 | 44<br>46                       | 88<br>92          | 2           | 14<br>14       | 61-145<br>71-120           |
|      | Benzene Toluene Chlorobenzene         | 50<br>50<br>50           | 50<br>50<br>50                 | 100<br>100<br>100 | 2<br>2<br>2 | 11<br>13<br>13 | 76-127<br>76-125<br>75-130 |
|      |                                       |                          |                                |                   |             |                |                            |

- # Column to be used to flag recovery and RPD values with an asterisk
- * Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

| COMMENTS: |  |
|-----------|--|
|           |  |

#### 3A WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ACCREDITED LABS, INC. Contract: _____

Matrix Spike - EPA Sample No.: W1 72-73

| COMPOUND                                                         | SPIKE                      | SAMPLE             | MS                         | MS                         | QC.                                          |
|------------------------------------------------------------------|----------------------------|--------------------|----------------------------|----------------------------|----------------------------------------------|
|                                                                  | ADDED                      | CONCENTRATION      | CONCENTRATION              | %                          | LIMIT                                        |
|                                                                  | (ug/L)                     | (ug/L)             | (ug/L)                     | REC #                      | REC.                                         |
| 1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene | 50<br>50<br>50<br>50<br>50 | 10<br>14<br>0<br>0 | 52<br>59<br>49<br>49<br>49 | 85<br>90<br>98<br>98<br>98 | 61-14<br>71-12-<br>76-127<br>76-125<br>75-13 |

| COMPOUND           | SPIKE<br>ADDED<br>(ug/L) | MSD<br>CONCENTRATION<br>(ug/L) | MSD<br>%<br>REC # | %<br>RPD # | QC LI<br>RPD | IMITS REC. |
|--------------------|--------------------------|--------------------------------|-------------------|------------|--------------|------------|
| 1,1-Dichloroethene | 50                       | 52                             | 85                | 0          | 14           | 61-14      |
| Trichloroethene    | 50                       | 59                             | 90                | 0          | 14           | 71-120     |
| Benzene            | 50                       | 50                             | 100               | 2          | 11           | 76-127     |
| Toluene            | 50                       | 49                             | 98                | 0          | 13           | 76-12      |
| Chlorobenzene      | 50                       | 49                             | 98                | 0          | <b>1</b> 3   | 75-13      |
|                    |                          |                                |                   |            |              |            |

# Column to be used to flag recovery and RPD values with an asterisk

| k | Values | outside | Ωf      | $0^{\circ}$ | limita |
|---|--------|---------|---------|-------------|--------|
|   | AUTOCO | Outside | $\circ$ | $\sim$      | エエルエレコ |

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

| COMMENTS: |  |  |
|-----------|--|--|
|           |  |  |
|           |  |  |
|           |  |  |
|           |  |  |
|           |  |  |
|           |  |  |

## VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

| VBLKC83 |  |
|---------|--|
| VBLKC83 |  |

Lab Name: ACCREDITED LABS, INC. Contract:

Lab File ID: >C0752

Lab Sample ID: VBLKC83

Date Analyzed: 10/12/98

Time Analyzed: 15:22

GC Column: RTX-502 ID: 0.53(mm) Heated Purge: (Y/N) N

Instrument ID: HP5970C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

|    | EPA         | LAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TIME     |
|----|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|    | SAMPLE NO.  | SAMPLE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FILE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ANALYZED |
|    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 01 | HBLK02      | HBLK02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | >C0753                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16:01    |
| 02 | W1 92-93    | 9810777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | >C0755                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 17:20    |
| 03 | W1 72-73    | 9810778                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | >C0756                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 17:59    |
| 04 | W1 62-63    | 9810779                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | >C0757                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18:38    |
| 05 | 72-73MS     | 9810778MS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | >C0757<br>>C0758                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 19:17    |
| 06 | 72-73MSD    | 9810778MSD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | >C0758                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19:57    |
| 07 | BLANKMS     | BLANKMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | >C0759                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20:35    |
| 08 | BLANKMSD    | BLANKMSD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | >C0760<br>>C0761                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 21:15    |
| 09 | DUANKINOU   | DLANKISD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | >20701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 21.13    |
| 10 | <del></del> | Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria - Maria |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
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| 13 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 14 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 15 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 16 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 17 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 18 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
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| 21 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 22 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 23 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 24 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 25 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 26 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ***************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
| 27 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 28 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Market Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the |          |
| 29 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 30 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| 30 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |

| COMMENTS: |  |
|-----------|--|
|           |  |

page 1 of 1

V-4

# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO

| Lab Name: AC     | CREDITED LABS                           | S, INC. C                               | ontract:       | VBLKC84          |
|------------------|-----------------------------------------|-----------------------------------------|----------------|------------------|
| ab Code: 11      | 109 Case                                | No.: 1781                               | SAS No.:       | SDG No.:         |
| ab File ID:      | >C0769                                  |                                         | Lab Sam        | ple ID: VBLKC84  |
| ate Analyze      | d: 10,                                  | /13/98                                  | Time An        | alyzed: 11:32    |
| C Column: R      | rx-502 ID:                              | 0.53 (mm)                               | Heated         | Purge: (Y/N) N   |
| nstrument II     | D: HI                                   | 25970C                                  |                |                  |
| THIS M           | ETHOD BLANK A                           | APPLIES TO THE                          | FOLLOWING SAMP | LES, MS AND MSD: |
| -                | EPA<br>SAMPLE NO.                       | LAB<br>SAMPLE ID                        | LAB<br>FILE ID | TIME<br>ANALYZED |
| 01<br>02         | W19293DL                                | 9810777DL                               | >C0771         | 13:07            |
| 03               |                                         |                                         |                |                  |
| 04   -<br>05   - |                                         |                                         |                |                  |
| 06               |                                         |                                         |                |                  |
| 07   -<br>08   - |                                         |                                         |                |                  |
| 09 -             |                                         |                                         |                | _                |
| 10               |                                         |                                         |                |                  |
| 11   -<br>12   - |                                         | *************************************** |                | _                |
| 13               |                                         |                                         |                |                  |
| 14   -<br>15   - |                                         |                                         |                |                  |
| 16               |                                         | ******                                  |                |                  |
| 17               |                                         |                                         |                |                  |
| 18<br>19         |                                         | **************************************  |                |                  |
| 20               |                                         |                                         |                |                  |
| 21 -             |                                         |                                         |                |                  |
| 23 -             |                                         |                                         |                |                  |
| 24               |                                         |                                         |                |                  |
| 25   -<br>26   - |                                         |                                         |                |                  |
| 27               |                                         |                                         |                |                  |
| 28               |                                         |                                         |                |                  |
| 29<br>30         |                                         |                                         |                |                  |
| 301_             |                                         |                                         |                |                  |
|                  |                                         |                                         |                |                  |
| OMMENTS:         | *************************************** |                                         |                |                  |

page 1 of 1

V-5

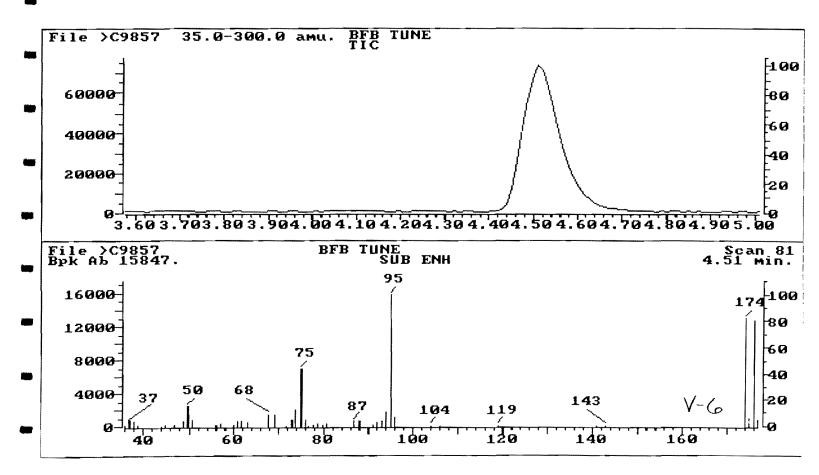
FORM IV VOA

OLMO3.0

#### GC/MS PERFORMANCE STANDARD

#### Bromofluorobenzene (BFB)

| m/z | Ion Abundance<br>Criteria          | % Relativ<br>Base<br>Peak | ve Abundance<br>Appropriate<br>Peak | Status |
|-----|------------------------------------|---------------------------|-------------------------------------|--------|
| 50  | 15-40% of mass 95                  | 15.13                     | 15.13                               | 0k     |
| 75  | 30-60% of mass 95                  | 43.78                     | 43.78                               | Ok     |
| 95  | Base peak, 100% relative abundance | 100.00                    | 100.00                              | Ok     |
| 96  | 5-9% of mass 95                    | 6.68                      | 6.68                                | Ok     |
| 173 | Less than 2% of mass 174           | 0.00                      | 0.00                                | Ok     |
| 174 | 50-120% of mass 95                 | 82.15                     | 82.15                               | Ok     |
| 175 | 5-9% of mass 174                   | 5.95                      | 7.25                                | Ok     |
| 176 | 95-101% of mass 174                | 80.44                     | 97.92                               | Ok     |
| 177 | 5-9% of mass 176                   | 5.27                      | 6.55                                | Ok     |



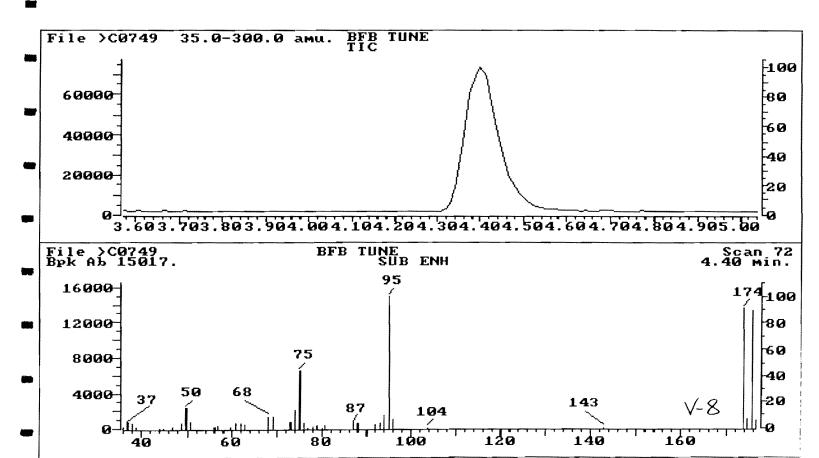
File: >C9857 Scan #: 81 Retn. time: 4.51

| m/z   | Int.   | m/z   | Int.   | m/z   | Int.   | m/z   | Int.    | m/z    | Int.    |
|-------|--------|-------|--------|-------|--------|-------|---------|--------|---------|
| 35.95 | 167 2  |       | 7202   | 71 00 | 43 2   |       | 211 7   | 102 00 | 49.7    |
| 35.95 | 167.3  | 50.90 | 730.3  | 71.90 | 47.3   | 80.90 | 311./   | 103.90 | 49.7    |
| 36.95 | 684.3  | 56.00 | 178.0  | 73.00 | 661.7  | 86.90 | 587.3   | 105.90 | 44.7    |
| 37.90 | 509.3  | 57.00 | 333.3  | 73.90 | 2088.3 | 88.00 | 569.7   | 118.85 | 72.7    |
| 38.90 | 202.7  | 60.00 | 129.0  | 75.00 | 6938.0 | 91.00 | 159.0   | 140.85 | 31.3    |
| 43.90 | 12.7   | 60.90 | 556.0  | 76.00 | 633.7  | 91.90 | 387.0   | 142.85 | 81.7    |
| 44.90 | 158.7  | 61.90 | 597.7  | 76.80 | 42.7   | 93.00 | 516.0   | 173.95 | 13018.3 |
| 46.90 | 172.3  | 63.00 | 420.0  | 77.90 | 118.7  | 94.00 | 1600.3  | 174.95 | 943.3   |
| 48.90 | 558.0  | 67.90 | 1398.3 | 78.80 | 328.7  | 95.00 | 15847.3 | 175.85 | 12747.3 |
| 49.90 | 2398.0 | 69.00 | 1318.7 | 79.80 | 123.0  | 96.00 | 1058.0  | 176.95 | 835.3   |

#### GC/MS PERFORMANCE STANDARD

#### Bromofluorobenzene (BFB)

| m/z | Ion Abundance<br>Criteria          | % Relativ<br>Base<br>Peak | /e Abundance<br>Appropriate<br>Peak | Status |
|-----|------------------------------------|---------------------------|-------------------------------------|--------|
| 50  | 15-40% of mass 95                  | 15.22                     | 15.22                               | Ok     |
| 75  | 30-60% of mass 95                  | 43.71                     | 43.71                               | Ok     |
| 95  | Base peak, 100% relative abundance | 100.00                    | 100.00                              | Ok     |
| 96  | 5-9% of mass 95                    | 7.17                      | 7.17                                | Ok     |
| 173 | Less than 2% of mass 174           | 0.00                      | 0.00                                | Ok     |
| 174 | 50-120% of mass 95                 | 91.24                     | 91.24                               | Ok     |
| 175 | 5-9% of mass 174                   | 6.93                      | 7.60                                | Ok     |
| 176 | 95-101% of mass 174                | 89.17                     | 97.73                               | Ok     |
| 177 | 5-9% of mass 176                   | 5.89                      | 6.60                                | Ok     |



>C0749 BFB TUNE 72 SUB ENH

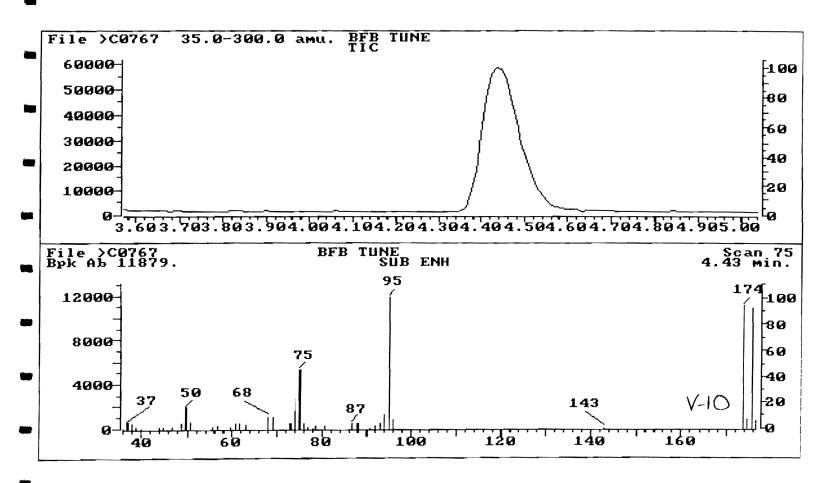
File: >C0749 Scan #: 72 Retn. time: 4.40

| m/z   | Int.  | m/z   | Int.   | m/z   | Int.   | m/z   | Int.   | m/z    | Int.    |
|-------|-------|-------|--------|-------|--------|-------|--------|--------|---------|
| 35.95 | 99.3  | 49.95 | 2285.0 | 67.95 | 1331.7 | 78.95 | 296.0  | 94.95  | 15017.0 |
| 36.95 | 623.3 | 50.95 | 700.7  | 68.95 | 1279.3 | 79.95 | 92.3   | 95.95  | 1077.3  |
| 37.95 | 519.0 | 56.05 | 166.3  | 72.95 | 622.3  | 80.85 | 293.0  | 103.75 | 56.0    |
| 38.95 | 188.0 | 56.95 | 320.7  | 73.95 | 1995.7 | 86.95 | 602.3  | 142.80 | 53.3    |
| 43.95 | 60.7  | 59.95 | 104.0  | 74.95 | 6563.7 | 87.95 | 584.7  | 173.90 | 13701.3 |
| 44.95 | 81.0  | 60.95 | 566.0  | 75.95 | 559.0  | 91.95 | 359.3  | 174.90 | 1041.0  |
| 46.95 | 201.3 | 62.05 | 507.0  | 76.95 | 67.7   | 92.95 | 522.0  | 175.90 | 13390.3 |
| 48.95 | 474.3 | 62.95 | 389.3  | 77.95 | 105.7  | 94.05 | 1473.7 | 176.90 | 884.0   |

#### GC/MS PERFORMANCE STANDARD

#### Bromofluorobenzene (BFB)

|   | m/z | Ion Abundance<br>Criteria          | % Relativ<br>Base<br>Peak | ve Abundance<br>Appropriate<br>Peak | Status |  |
|---|-----|------------------------------------|---------------------------|-------------------------------------|--------|--|
|   | 50  | 15-40% of mass 95                  | 15.95                     | 15.95                               | Ok     |  |
| _ | 75  | 30-60% of mass 95                  | 44.31                     | 44.31                               | 0k     |  |
| • | 95  | Base peak, 100% relative abundance | 100.00                    | 100.00                              | Ok     |  |
|   | 96  | 5-9% of mass 95                    | 6.99                      | 6.99                                | Ok     |  |
|   | 173 | Less than 2% of mass 174           | 0.00                      | 0.00                                | Ok     |  |
|   | 174 | 50-120% of mass 95                 | 94.12                     | 94.12                               | Ok     |  |
|   | 175 | 5-9% of mass 174                   | 6.80                      | 7.22                                | Ok     |  |
|   | 176 | 95-101% of mass 174                | 92.01                     | 97.76                               | Ok     |  |
|   | 177 | 5-9% of mass 176                   | 6.11                      | 6.64                                | Ok     |  |
|   |     |                                    |                           |                                     |        |  |



File: >C0767 Scan #: 75 Retn. time: 4.43

| m/z   | Int.  | m/z   | Int.   | m/z   | Int.   | m/z   | Int.  | m/z    | Int.    |
|-------|-------|-------|--------|-------|--------|-------|-------|--------|---------|
| 35.95 | 69.7  | 48.95 | 385.3  | 63.05 | 303.3  | 77.95 | 41.3  | 93.95  | 1268.7  |
| 36.95 | 497.0 | 49.95 | 1894.7 | 67.95 | 1034.7 | 78.85 | 232.3 | 94.95  | 11879.0 |
| 37.95 | 426.0 | 50.95 | 598.3  | 68.95 | 1061.3 | 80.85 | 239.7 | 95.95  | 830.3   |
| 38.95 | 173.7 | 55.85 | 155.0  | 72.95 | 454.3  | 86.85 | 462.7 | 142.80 | 51.0    |
| 39.95 | 3.3   | 56.95 | 252.3  | 73.95 | 1645.0 | 87.95 | 440.0 | 173.90 | 11180.0 |
| 43.95 | 76.0  | 59.95 | 88.0   | 74.95 | 5264.0 | 90.85 | 60.7  | 174.90 | 807.7   |
| 44.95 | 108.7 | 60.95 | 432.0  | 75.95 | 424.3  | 91.95 | 257.3 | 175.90 | 10929.7 |
| 46.95 | 160.7 | 61.95 | 449.3  | 76.95 | 114.3  | 92.95 | 409.0 | 176.90 | 725.7   |

#### 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ACCREDITED LABS, INC. Contract:

Case No.: SAS No.: _____ SDG No.: Lab Code: 11109

Lab File ID (Standard): >C0750 Date Analyzed: 10/12/98

Instrument ID: HP5970BC Time Analyzed: 13:39

GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

| ,        |                     | 704 (504)                               |                |                                         |                                         | T00 (055) |         |
|----------|---------------------|-----------------------------------------|----------------|-----------------------------------------|-----------------------------------------|-----------|---------|
|          |                     | IS1(BCM)                                | 75.07 #        | IS2(DFB)                                | D.M. #                                  | IS3(CBZ)  | Dm //   |
| ·        |                     | AREA #                                  | RT #           | AREA #                                  | RT #                                    | AREA #    | RT #    |
| ,        | 12 HOUR STD         | 89412                                   | 15.77          | 455355                                  | 18.09                                   | 378770    | 25.34   |
|          | UPPER LIMIT         | 178824                                  | 16.27          | 910710                                  | 18.59                                   | 757540    | 25.84   |
|          | LOWER LIMIT         | 44706                                   | 15.27          | 227677                                  | 17.59                                   | 189385    | 24.84   |
| '        |                     | ======================================= |                | ======================================= | =======                                 | ========= | ======= |
| 1        | EPA SAMPLE          |                                         |                |                                         |                                         |           |         |
|          | NO.                 |                                         |                |                                         |                                         |           |         |
| i        |                     |                                         |                |                                         | ======                                  | ========= |         |
| 01       | VBLKC83             | 84820                                   | 15.76          | 440444                                  | 18.08                                   | 366614    | 25.38   |
| 02       | HBLK02              | 83353                                   | 15.78          | 443050                                  | 18.10                                   | 359123    | 25.35   |
| 03       | W1 92-93            | 75887                                   | 15.78          | 401359                                  | 18.10                                   | 335732    | 25.35   |
| 04       | W1 72-73            | 75095                                   | 15.76          | 391299                                  | 18.09                                   | 321913    | 25.38   |
| 05       | W1 62-63            | 57600                                   | 15.77          | 299545                                  | 18.10                                   | 248715    | 25.35   |
| 06       | 72-73MS             | 72737                                   | 15.74          | 386664                                  | 18.11                                   | 320239    | 25.36   |
| 07       | 72-73MSD            | 69208                                   | 15.79          | 367555                                  | 18.11                                   | 309304    | 25.36   |
| 08<br>09 | BLANKMS<br>BLANKMSD | 70042<br>65648                          | 15.80<br>15.74 | 374553<br>356588                        | 18.13                                   | 310379    | 25.38   |
| 10       | PLANKISD            | 03048                                   | 15.74          | 336366                                  | 18.11                                   | 293369    | 25.36   |
| 11       |                     |                                         |                |                                         | *************************************** |           |         |
| 12       |                     |                                         |                |                                         |                                         |           |         |
| 13       |                     |                                         |                |                                         |                                         |           |         |
| 14       |                     |                                         |                |                                         |                                         |           |         |
| 15       |                     |                                         |                |                                         |                                         |           |         |
| 16       |                     |                                         |                |                                         |                                         |           |         |
| 17       |                     |                                         |                |                                         |                                         |           |         |
| 18       |                     |                                         |                |                                         |                                         |           |         |
| 19       |                     |                                         |                |                                         |                                         |           |         |
| 20       |                     |                                         |                |                                         |                                         |           |         |
| 21       |                     | -                                       |                |                                         |                                         |           |         |
| 22       |                     |                                         |                |                                         |                                         |           |         |

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Contract: Lab Name: ACCREDITED LABS, INC.

Lab Code: 11109 Case No.: 1781 SAS No.: ____ SDG No.:

Lab File ID (Standard): >C0768 Date Analyzed: 10/13/98

Instrument ID: HP5970BC Time Analyzed: 10:37

GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

|          |                            | IS1 (BCM)       |                | IS2(DFB)         |       | IS3 (CBZ)        |                |
|----------|----------------------------|-----------------|----------------|------------------|-------|------------------|----------------|
|          |                            | AREA #          | RT #           | AREA #           | RT #  | AREA #           | RT #           |
|          | 12 UOUD COD                |                 | 15 76          | 424122           | 18.09 | 252025           | ======         |
| ĺ        | 12 HOUR STD<br>UPPER LIMIT | 82436<br>164872 | 15.76<br>16.26 | 424122<br>848244 | 18.59 | 352035<br>704070 | 25.39<br>25.89 |
|          | LOWER LIMIT                | 41218           | 15.26          | 212061           | 17.59 | 176018           | 24.89          |
|          |                            |                 |                |                  |       |                  | ======         |
|          | EPA SAMPLE NO.             |                 |                |                  |       |                  |                |
| 01       | VBLKC84                    | 72251           | 15.77          | 400968           | 18.10 | 333866           | 25.40          |
| 02       | W19293DL                   | 74284           | 15.77          | 412057           | 18.09 | 341442           | 25.39          |
| 03       |                            |                 |                |                  |       |                  |                |
| 04       |                            |                 |                |                  |       |                  |                |
| 05<br>06 |                            |                 |                |                  |       |                  |                |
| 07       |                            |                 |                |                  |       |                  |                |
| 08       |                            |                 |                |                  |       |                  |                |
| 09       |                            |                 |                |                  |       |                  |                |
| 10<br>11 |                            |                 |                |                  |       |                  |                |
| 12       |                            |                 |                |                  |       |                  |                |
| 13       |                            |                 |                |                  |       |                  |                |
| 14       |                            |                 |                |                  |       |                  |                |
| 15       |                            |                 |                |                  |       |                  |                |
| 16<br>17 |                            |                 |                |                  |       |                  |                |
| 18       |                            |                 |                |                  |       |                  |                |
| 19       |                            |                 |                |                  |       |                  |                |
| 20       |                            |                 |                |                  |       |                  |                |
| 21       |                            |                 |                |                  |       |                  |                |
| 22       |                            |                 |                |                  |       |                  |                |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

page 1 of 1

V-13

#### **ACCREDITED LABORATORIES**

#### GCMS-VOLATILES

#### INSTRUMENT DETECTION LIMITS (IDL)

Instrument: GCMS

Instrument ID: HP5970BD

Column : RTX502.2 (105m  $\times$  0.53mm ID  $\times$  3.0um film thickness)

Date Analysed: 01/07/98 Analyst: William Llorente

| ANALYTES                  | REP 1 | REP 2 | REP 3 | AVERAGE | STD DEV | MDL    |
|---------------------------|-------|-------|-------|---------|---------|--------|
| Chloromethane             | 9.12  | 10.85 | 7.38  | 9.1167  | 1.4166  | 4.8349 |
| Bromomethane              | 13.04 | 13.73 | 11.38 | 12.7167 | 0.9862  | 3.3661 |
| Vinyl chloride            | 10.41 | 11.60 | 9.04  | 10.3500 | 1.0460  | 3.5699 |
| Chloroethane              | 9.57  | 10.88 | 8.64  | 9.6967  | 0.9189  | 3,1360 |
| Methylene chloride        | 11.90 | 11.37 | 10.94 | 11.4033 | 0.3926  | 1.3400 |
| Acetone                   | 14.49 | 13.76 | 16.41 | 14.8867 | 1.1176  | 3.8145 |
| Carbon disulfide          | 8.71  | 10.65 | 7.18  | 8.8467  | 1.4199  | 4.8462 |
| 1,1-Dichloroethene        | 10.69 | 9.96  | 9.23  | 9.9600  | 0.5960  | 2.0343 |
| 1,1-Dichloroethane        | 11.00 | 10.90 | 9.82  | 10.5733 | 0.5342  | 1.8234 |
| cis-1,2-Dichloroethene    | 11.21 | 10.65 | 9.73  | 10.5300 | 0.6101  | 2.0824 |
| trans-1,2-Dichloroethene  | 10.59 | 9.90  | 9.42  | 9.9700  | 0.4802  | 1.6390 |
| Chloroform                | 11.33 | 11.08 | 10.22 | 10.8767 | 0.4754  | 1.6226 |
| 1,2-Dichloroethane        | 11.93 | 11.03 | 10.64 | 11.2000 | 0.5402  | 1.8437 |
| 2-Butanone                | 11.48 | 11.47 | 12.30 | 11.7500 | 0.3889  | 1.3274 |
| 1,1,1-Trichloroethane     | 11.41 | 11.33 | 10.01 | 10.9167 | 0.6419  | 2.1909 |
| Carbon tetrachloride      | 11.03 | 10.78 | 8.71  | 10.1733 | 1.0398  | 3.5487 |
| Bromodichloromethane      | 11.10 | 10.64 | 9.48  | 10.4067 | 0.6816  | 2.3264 |
| 1,2-Dichloropropane       | 11.72 | 11.02 | 10.36 | 11.0333 | 0.5553  | 1.8952 |
| cis-1,3-Dichloropropene   | 10.73 | 10.67 | 9.57  | 10.3233 | 0.5332  | 1.8200 |
| Trichloroethene           | 11.69 | 10.74 | 10.21 | 10.8800 | 0.6123  | 2.0897 |
| Benzene                   | 11.38 | 11.08 | 10.10 | 10.8533 | 0.5466  | 1.8655 |
| Dibromochloromethane      | 11.11 | 10.70 | 9.23  | 10.3467 | 0.8071  | 2.7548 |
| 1,1,2-Trichloroethane     | 11.31 | 11.35 | 10.74 | 11.1333 | 0.2786  | 0.9509 |
| trans-1,3-Dichloropropene | 9.06  | 9.45  | 8.84  | 9.1167  | 0.2522  | 0.8609 |

| Bromoform                 | 11.56 | 10.28 | 8.89  | 10.2433 | 1.0903 | 3.7213 |
|---------------------------|-------|-------|-------|---------|--------|--------|
| 2-Hexanone                | 12.29 | 11.33 | 11.28 | 11.6333 | 0.4648 | 1.5863 |
| 4-Methyl-2-pentanone      | 12.30 | 11.22 | 12.37 | 11.9633 | 0.5264 | 1.7966 |
| Tetrachloroethene         | 12.69 | 10.79 | 10.83 | 11.4367 | 0.8864 | 3.0253 |
| 1,1,2,2-Tetrachloroethane | 12.86 | 11.00 | 11.16 | 11.6733 | 0.8416 | 2.8725 |
| Toluene                   | 11.67 | 10.95 | 10.44 | 11.0200 | 0.5046 | 1.7221 |
| Chlorobenzene             | 11.87 | 11.03 | 10.25 | 11.0500 | 0.6615 | 2.2577 |
| Ethylbenzene              | 12.15 | 10.55 | 11.14 | 11.2800 | 0.6607 | 2.2548 |
| Styrene                   | 11.62 | 10.51 | 10.28 | 10.8033 | 0.5851 | 1.9968 |
| m,p-Xylene                | 12.33 | 11.71 | 10.45 | 11.4967 | 0.7822 | 2.6696 |
| o-Xvlene                  | 12.44 | 10.83 | 10.34 | 11.2033 | 0.8970 | 3.0616 |

| W: | 1 9 | 92 | - | 9 | 3 |
|----|-----|----|---|---|---|
|----|-----|----|---|---|---|

|   | Lab Name: ACCREDITED | LABS. INC.                                                                                                      | Contract:                                 | W1 92-93  |
|---|----------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------|
| - |                      | •                                                                                                               | SAS No.: SDG No                           | ).:       |
|   | Matrix: (soil/water) | WATER                                                                                                           | Lab Sample ID: 9                          | 810777    |
| _ | Sample wt/vol: 5     | .0 (g/mL) ML                                                                                                    | Lab File ID: >                            | C0755     |
|   | Level: (low/med) L   | WOW                                                                                                             | Date Received: 0                          | 9/21/98   |
|   | % Moisture: not dec  | min fatorina di santa di santa di santa di santa di santa di santa di santa di santa di santa di santa di santa | Date Analyzed: 1                          | 0/12/98   |
|   | GC Column: RTX-502   | ID: 0.53 (mm)                                                                                                   | Dilution Factor:                          | 1.0       |
|   | Soil Extract Volume: | (uL)                                                                                                            | Soil Aliquot Vol                          | .ume:(uL) |
|   | CAS NO.              | COMPOUND                                                                                                        | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q         |

| 74-87-3Chloromethane                | 10  | U            |
|-------------------------------------|-----|--------------|
| 74-83-9Bromomethane                 | 10  | U            |
| 75-01-4Vinyl Chloride               | 10  | U            |
| 75-00-3Chloroethane                 | 10  | U            |
| 75-09-2Methylene Chloride           | 4   | JB           |
| 67-64-1Acetone                      | 250 | E            |
| 75-15-0Carbon Disulfide             | 10  | Ū            |
| 75-35-41,1-Dichloroethene           | 2   | J            |
| 75-34-31,1-Dichloroethane           | 7   | J            |
| 540-59-01,2-Dichloroethene (total)  | 17  |              |
| 67-66-3Chloroform                   | 10  | U            |
| 107-06-21,2-Dichloroethane          | 10  | u            |
| 78-93-32-Butanone                   | 10  |              |
| 71-55-61,1,1-Trichloroethane        | 7   | J            |
| 56-23-5Carbon Tetrachloride         | 10  | <del>U</del> |
| 75-27-4Bromodichloromethane         | 10  |              |
| 78-87-51,2-Dichloropropane          | 10  | U            |
| 10061-01-5cis-1,3-Dichloropropene   | 10  |              |
| 79-01-6Trichloroethene              | 8   | J            |
| 124-48-1Dibromochloromethane        | 10  | _ U          |
| 79-00-51,1,2-Trichloroethane        | 10  | U            |
| 71-43-2Benzene                      | 2   | J            |
| 10061-02-6trans-1,3-Dichloropropene | 10  |              |
| 75-25-2Bromoform                    | 10  | U            |
| 108-10-14-Methyl-2-Pentanone        | 10  | U            |
| 591-78-62-Hexanone                  | 10  | U            |
| 127-18-4Tetrachloroethene           | 7   | J            |
| 79-34-51,1,2,2-Tetrachloroethane    | 10  | Ū            |
| 108-88-3Toluene                     | 2   | J            |
| 108-90-7Chlorobenzene               | 10  | U            |
| 100-41-4Ethylbenzene                | 10  | U            |
| 100-42-5Styrene                     | 10  | U            |
| 1330-20-7Xylene (total)             | 10  | U            |
|                                     |     |              |

# 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

| EPA SAMPL |       | N^ |
|-----------|-------|----|
| W 1       | 92-93 |    |

| Lab Name: ACCREDITED | LABS, INC.     | Contract:            | W1 92-93  |
|----------------------|----------------|----------------------|-----------|
| Lab Code: 11109      | Case No.: 1781 | SAS No.: SDG No      | ··:       |
| Matrix: (soil/water) | WATER          | Lab Sample ID: 9     | 810777    |
| Sample wt/vol:       | 5.0 (g/mL) ML  | Lab File ID: >       | -C0755    |
| Level: (low/med)     | LOW            | Date Received: 0     | 99/21/98  |
| % Moisture: not dec. |                | Date Analyzed: 1     | .0/12/98  |
| GC Column: RTX-502   | ID: 0.53 (mm)  | Dilution Factor:     | 1.0       |
| Soil Extract Volume: | (uL)           | Soil Aliquot Vol     | .ume:(uL) |
|                      |                | CONCENTRATION UNITS: |           |

(ug/L or ug/Kg) UG/L

Number TICs found: 0

23.____

26.__ 27.__ 28.__ 29.__ 30.

|            | ·             | <u> </u> | <del> </del> |                     |   |
|------------|---------------|----------|--------------|---------------------|---|
| CAS NUMBER | COMPOUND NAME | RT       | EST. CONC.   | Q                   | - |
| 1          |               |          |              | Anna Anna Anna Anna |   |
| 2          |               |          |              |                     |   |
| 4.         |               |          |              |                     |   |
| 5.         |               |          |              |                     |   |
| 6.         |               |          |              |                     | - |
| 8.         |               |          |              |                     |   |
| 9.         |               |          |              |                     |   |
| 11         |               |          |              |                     | - |
| 12.        |               |          |              |                     |   |
| 14.        |               |          |              |                     | - |
| 15.        |               |          |              |                     |   |
| 16.<br>17. |               |          |              |                     |   |
| 18.        |               |          |              |                     |   |
| 19         |               |          |              |                     |   |
| 21.        |               |          |              |                     |   |
| 21         |               |          |              |                     | - |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| J 1 | l a | 2 | a | 3 | DI |
|-----|-----|---|---|---|----|

Q

|   | Lab Name: ACCREDITED LABS, INC.  | Contract:        | M19293DT |
|---|----------------------------------|------------------|----------|
|   | Lab Code: 11109                  | SAS No.: SDG No  | ).:      |
| _ | Matrix: (soil/water) WATER       | Lab Sample ID: 9 | 810777DL |
| _ | Sample wt/vol: 1.0 (g/mL) ML     | Lab File ID: >   | ·C0771   |
|   | Level: (low/med) LOW             | Date Received: 0 | 9/21/98  |
|   | % Moisture: not dec              | Date Analyzed: 1 | 0/13/98  |
| p | GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: | 1.0      |
|   | Soil Extract Volume:(uL)         | Soil Aliquot Vol | ume:(uL) |
|   |                                  |                  |          |

COMPOUND

CAS NO.

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| 74-87-3Chloromethane                | 50  | U                |
|-------------------------------------|-----|------------------|
| 74-83-9Bromomethane                 | 50  | U                |
| 75-01-4Vinyl Chloride               | 50  | U                |
| 75-00-3Chloroethane                 | 50  | U                |
| 75-09-2Methylene Chloride           | 53  | DB               |
| 67-64-1Acetone                      | 210 | DB               |
| 75-15-0Carbon Disulfide             | 50  | U                |
| 75-35-41,1-Dichloroethene           | 50  | U                |
| 75-34-31,1-Dichloroethane           | 6   | JD               |
| 540-59-01,2-Dichloroethene (total)  | 15  | JD               |
| 67-66-3Chloroform                   | 50  | U                |
| 107-06-21,2-Dichloroethane          | 50  | U                |
| 78-93-32-Butanone                   | 50  | _n_              |
| 71-55-61,1,1-Trichloroethane        | 5   | JD               |
| 56-23-5Carbon Tetrachloride         | 50  | - U -            |
| 75-27-4Bromodichloromethane         | 50  | <u>n</u>         |
| 78-87-51,2-Dichloropropane          | 50  | U                |
| 10061-01-5cis-1,3-Dichloropropene   | 50  | <del>u</del> -   |
| 79-01-6Trichloroethene              | 50  | -u-              |
| 124-48-1Dibromochloromethane        | 50  | <u>u</u>         |
| 79-00-51,1,2-Trichloroethane        | 50  | Ŭ                |
| 71-43-2Benzene                      | 50  |                  |
| 10061-02-6trans-1,3-Dichloropropene | 50  | U                |
| 75-25-2Bromoform                    | 50  | U                |
| 108-10-14-Methyl-2-Pentanone        | 50  | U                |
| 591-78-62-Hexanone                  | 50  | U                |
| 127-18-4Tetrachloroethene           | 6   | JD               |
| 79-34-51,1,2,2-Tetrachloroethane    | 50  | _ u              |
| 108-88-3Toluene                     | 50  | U                |
| 108-90-7Chlorobenzene               | 50  | Ŭ-               |
| 100-41-4Ethylbenzene                | 50  | U                |
| 100-42-5Styrene                     | 50  | — <del>u</del> — |
| 1330-20-7Xylene (total)             | 50  | ŭ-               |
|                                     |     |                  |

| VOLATILE ORGANICS AN                |                                                |
|-------------------------------------|------------------------------------------------|
| Lab Name: ACCREDITED LABS, INC. Con | W1 72-73                                       |
| Lab Code: 11109                     | S No.: SDG No.:                                |
| Matrix: (soil/water) WATER          | Lab Sample ID: 9810778                         |
| Sample wt/vol: 5.0 (g/mL) ML        | Lab File ID: >C0756                            |
| Level: (low/med) LOW                | Date Received: 09/21/98                        |
| % Moisture: not dec                 | Date Analyzed: 10/12/98                        |
| GC Column: RTX-502 ID: 0.53 (mm)    | Dilution Factor: 1.0                           |
| Soil Extract Volume:(uL)            | Soil Aliquot Volume:(uL)                       |
|                                     | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) UG/L Q |
| 74-87-3                             | 10                                             |

79-01-6-----Trichloroethene

71-43-2----Benzene

108-88-3-----Toluene

75-25-2----Bromoform

591-78-6----2-Hexanone

108-90-7-----Chlorobenzene

100-41-4-----Ethylbenzene 100-42-5-----Styrene 1330-20-7-----Xylene (total)

124-48-1-----Dibromochloromethane

 $108-10-1----4-Methyl-\overline{2-Pentanone}$ 

127-18-4----Tetrachloroethene

 $79-00-5-----1,1,2-Trichloroethan\overline{e}$ 

10061-02-6----trans-1,3-Dichloropropene

79-34-5----1,1,2,2-Tetrachloroethane

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# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

| EPA | SAMPLE | NO. |
|-----|--------|-----|
|     |        |     |

|     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | E11 70 70 |
|-----|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|
| E.v | Lab Name: ACCREDITED | LABS, INC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Contract:        | W1 72-73  |
|     | Lab Code: 11109      | Case No.: 1781                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SAS No.: SDG No  | ).:       |
|     | Matrix: (soil/water) | WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lab Sample ID: 9 | 810778    |
|     | Sample wt/vol:       | 5.0 (g/mL) ML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lab File ID: >   | C0756     |
|     | Level: (low/med)     | LOW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date Received: 0 | 9/21/98   |
|     | % Moisture: not dec. | Water Insulation of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t | Date Analyzed: 1 | 0/12/98   |
| -   | GC Column: RTX-502   | ID: 0.53 (mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Dilution Factor: | 1.0       |
|     | Soil Extract Volume: | (uL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Soil Aliquot Vol | ume:(uL)  |
|     |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |           |

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

|                                       | N |
|---------------------------------------|---|
| 4.                                    |   |
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| 7.                                    |   |
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# 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| Lab | Name: | ACCREDITED | LABS, INC.     | Contract: |       | W1   | 62-63         |
|-----|-------|------------|----------------|-----------|-------|------|---------------|
| Lab | Code: | 11109      | Case No.: 1781 | SAS No.:  | SDG 1 | 10.: | <del>(d</del> |

Matrix: (soil/water) WATER

Lab Sample ID: 9810779

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >C0757

Level: (low/med) LOW

Date Received: 09/21/98

% Moisture: not dec.

Date Analyzed: 10/12/98

GC Column: RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

CAS NO. COMPOUND

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

0

| 74-87-3Chloromethane                | 10 U   |
|-------------------------------------|--------|
| 74-83-9Bromomethane                 | 10 -U  |
| 75-01-4Vinyl Chloride               | 10  -U |
| 75-00-3Chloroethane                 | 10 -U  |
| 75-09-2Methylene Chloride           | 4 J B  |
| 67-64-1Acetone                      | 48     |
| 75-15-0Carbon Disulfide             | 10 U   |
| 75-35-41,1-Dichloroethene           | 2 J    |
| 75-34-31,1-Dichloroethane           | 2 J    |
| 540-59-01,2-Dichloroethene (total)  | 2 J    |
| 67-66-3Chloroform                   | 10 T   |
| 107-06-21,2-Dichloroethane          | 10 U   |
| 78-93-32-Butanone                   | 7 J    |
| 71-55-61,1,1-Trichloroethane        | 5 J    |
| 56-23-5Carbon Tetrachloride         | 10 T   |
| 75-27-4Bromodichloromethane         | 10 U   |
| 78-87-51,2-Dichloropropane          | 10 U   |
| 10061-01-5cis-1,3-Dichloropropene   | 10 UU  |
| 79-01-6Trichloroethene              | 4 J    |
| 124-48-1Dibromochloromethane        | 10U    |
| 79-00-51,1,2-Trichloroethane        | 10 UU  |
| 71-43-2Benzene                      | 10 UU  |
| 10061-02-6trans-1,3-Dichloropropene | 10 U   |
| 75-25-2Bromoform                    | 10 U   |
| 108-10-14-Methyl-2-Pentanone        | 10 U   |
| 591-78-62-Hexanone                  | 10 U   |
| 127-18-4Tetrachloroethene           | 2 J    |
| 79-34-51,1,2,2-Tetrachloroethane    | 10     |
| 108-88-3Toluene                     | 10 UU  |
| 108-90-7Chlorobenzene               | 10 U   |
| 100-41-4Ethylbenzene                | 10 U   |
| 100-42-5Styrene                     | 10 UU  |
| 1330-20-7Xylene (total)             | 10 U   |
|                                     |        |

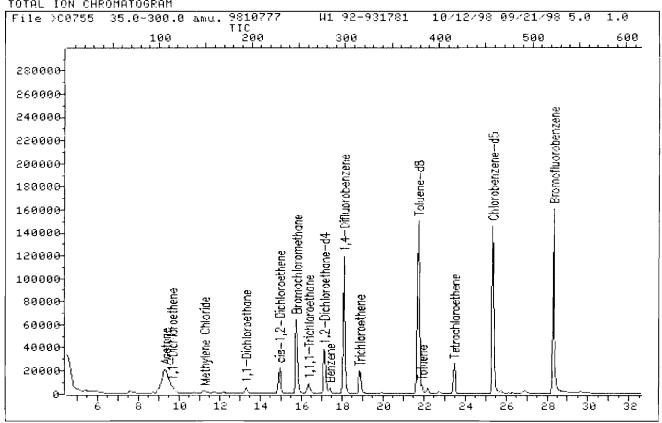
# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

| EPA | SAMPLE | NO. |
|-----|--------|-----|
|-----|--------|-----|

W1 62-63

| _ | Lab Name: ACCREDITED            | LABS, INC.     | Contract:                                 |
|---|---------------------------------|----------------|-------------------------------------------|
|   | Lab Code: 11109                 | Case No.: 1781 | SAS No.: SDG No.:                         |
|   | <pre>Matrix: (soil/water)</pre> | WATER          | Lab Sample ID: 9810779                    |
|   | Sample wt/vol:                  | 5.0 (g/mL) ML  | Lab File ID: >C0757                       |
|   | Level: (low/med)                | LOW            | Date Received: 09/21/98                   |
|   | % Moisture: not dec.            |                | Date Analyzed: 10/12/98                   |
| - | GC Column: RTX-502              | ID: 0.53 (mm)  | Dilution Factor: 1.0                      |
|   | Soil Extract Volume:            | (uL)           | Soil Aliquot Volume:(uL)                  |
|   | Number TICs found:              | 1              | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L |

| CAS NUMBER   | COMPOUND NAME                | RT                                      | EST. CONC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 |
|--------------|------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1. 76131     | Ethane, 1,1,2-trichloro-1,2, |                                         | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N |
| 2.           |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 4.<br>5.     |                              | *************************************** |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 0.           |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 7.<br>8.     |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| J.           |                              |                                         | Allendaria and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second an |   |
| 10.          |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ļ |
| L.Z. •       |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| LJ.          |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| L4.          |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
|              |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 17.          |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 19.          |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 20.          |                              | **************************************  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| . <i>(</i> • |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 24.          |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| : O •        |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 26.          |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| , O .        |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| 29.          |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |
| • • •        |                              |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |



W1 92-93 Name: 9810777

10/12/98 09/21/98 5.0 7.0 Misc: 1781 1.0 L

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

Quant Time: 981013 08:14 Injected at: 981012 17:20

# QUANT RE

 Operator ID:
 WILLIAM
 Quant Rev:
 6
 Quant Time:
 981013 08:14

 utput File:
 ^C0755::QT
 Injected at:
 981012 17:20

 Dilution Factor:
 1.00000

Name: 9810777 W1 92-93

isc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

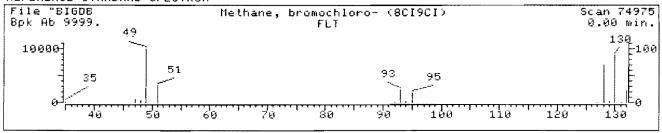
ID File: IDPA24::SC

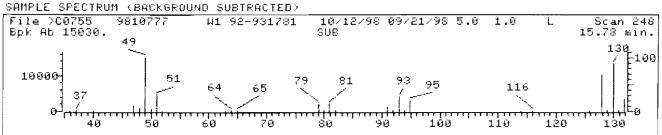
itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

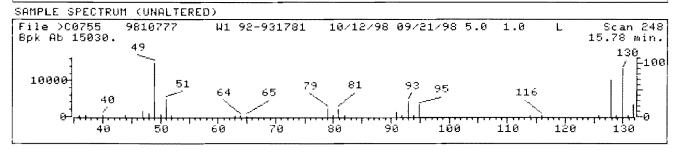
ast Calibration: 981012 14:27

|             | Compound               | R.T.  | Scan# | Area   | Conc   | Units | q   |
|-------------|------------------------|-------|-------|--------|--------|-------|-----|
| <b>—</b> l) | *Bromochloromethane    | 15.78 | 248   | 75887  | 50.00  | ug/l  | 94  |
| 6)          | Methylene Chloride     | 11.26 | 149   | 9854   | 4.33   | ug/l  | 8 7 |
| 7)          | Acetone                | 9.35  | 107   | 70555  | 254.53 | ug/l  | 94  |
| <b>—</b> 9) | l,l-Dichloroethene     | 9.66  | 114   | 3820   | 1.76   | ug/l  | 98  |
| 10)         | l,l-Dichloroethane     | 13.31 | 194   | 26340  | 6.56   | ug/l  | 89  |
| '1)         | cis-1,2-Dichloroethene | 14.96 | 230   | 44584  | 16.94  | ug/l  | 95  |
| _4)         | l,2-Dichloroethane-d4  | 17.14 | 278   | 100689 | 50.62  | ug/l  | 77  |
| T6)         | *l,4-Difluorobenzene   | 18.10 | 299   | 401359 | 50.00  | ug/l  | 77  |
| 18)         | l,l,l-Trichloroethane  | 16.37 | 261   | 31893  | 7.46   | ug/l  | 94  |
| 3)          | Trichloroethene        | 18.88 | 316   | 28578M | 7.49   | ug/l  |     |
| <b>9</b> 4) | Benzene                | 17.42 | 284   | 14538  | 1.96   | ug/l  | 100 |
| 29)         | *Chlorobenzene-d5      | 25.35 | 458   | 335732 | 50.00  | ug/l  | 84  |
| 2)          | Tetrachloroethene      | 23.48 | 417   | 25325  | 7.09   | ug/l  | 94  |
| 4)          | Toluene-d8             | 21.75 | 379   | 392478 | 48.06  | ug/l  | 94  |
| 35)         | Toluene                | 21.93 | 383   | 14894  | 1.63   | ug/l  | 99  |
| 27)         | Bromofluorobenzene     | 28.32 | 523   | 224279 | 47.68  | ug/l  | 84  |

^{*} Compound is ISTD







Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 1 (ISTD)

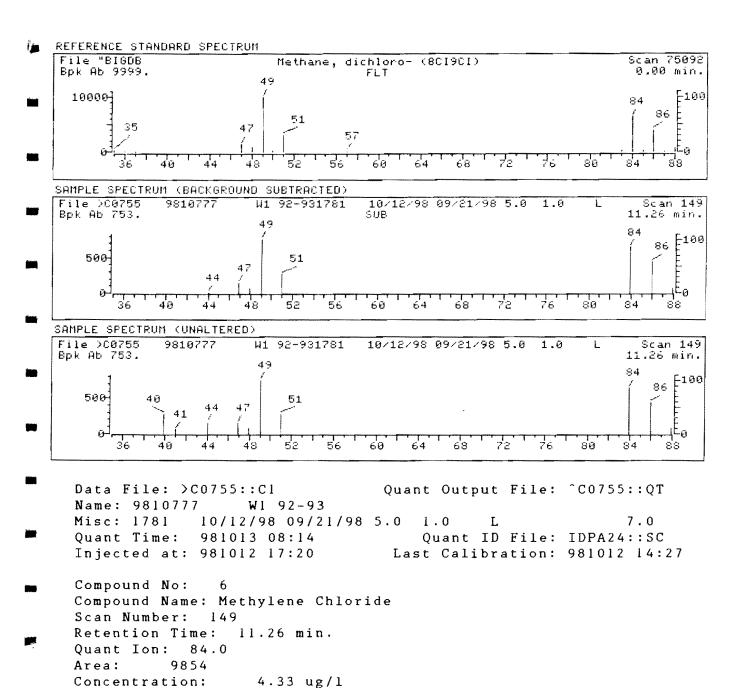
Compound Name: Bromochloromethane

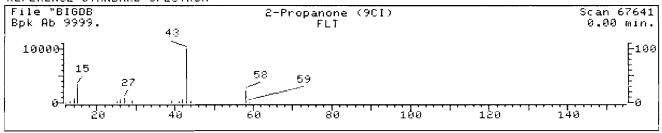
Scan Number: 248

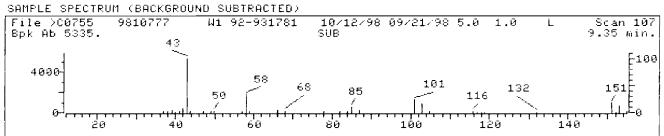
Retention Time: 15.78 min.

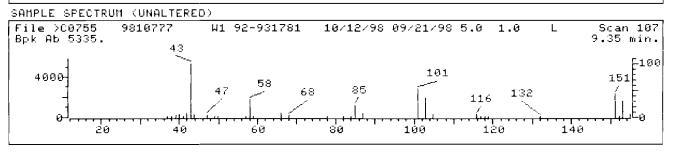
Quant Ion: 128.0 Area: 75887

Concentration: 50.00 ug/l









Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 7

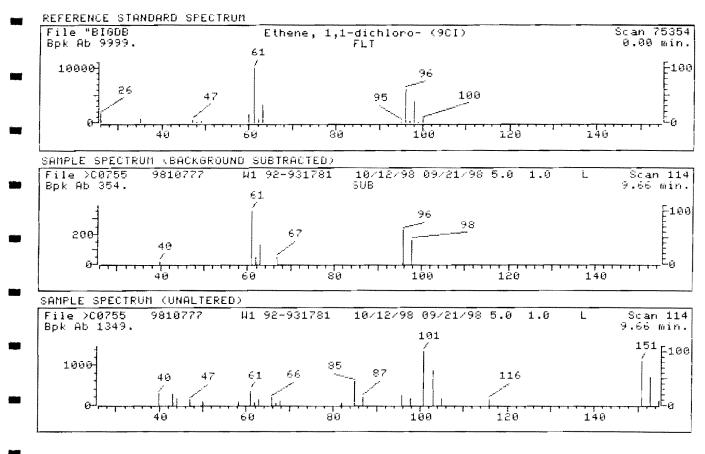
Compound Name: Acetone

Scan Number: 107

Retention Time: 9.35 min.

Quant Ion: 43.0 Area: 70555

Concentration: 254.53 ug/1



Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 9

Compound Name: 1,1-Dichloroethene

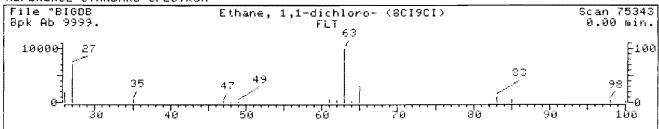
Scan Number: 114

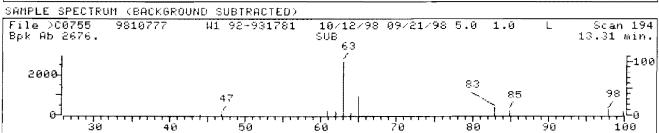
Retention Time: 9.66 min.

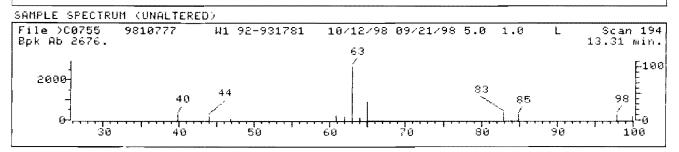
Quant Ion: 96.0 Area: 3820

Concentration: 1.76 ug/l

#### REFERENCE STANDARD SPECTRUM







Data File: >C0755::Cl Quant Output File: ^C0755::QT

Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 10

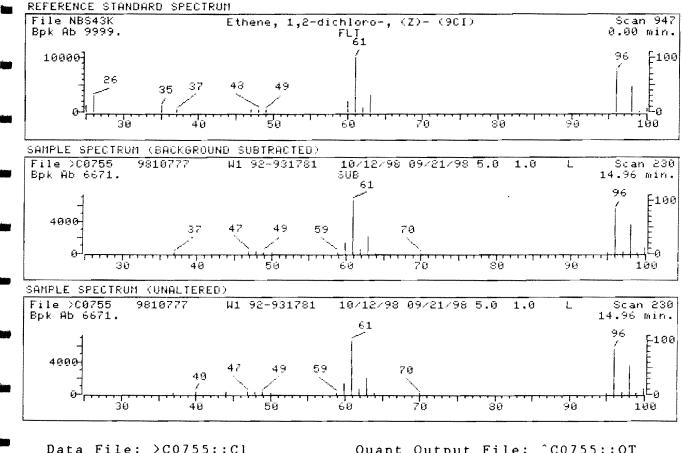
Compound Name: 1,1-Dichloroethane

Scan Number: 194

Retention Time: 13.31 min.

Quant Ion: 63.0 Area: 26340

Concentration: 6.56 ug/l



Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L

Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 11

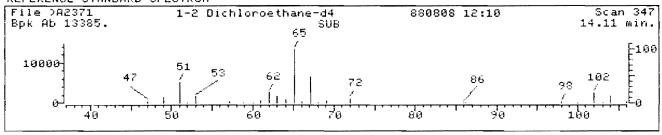
Compound Name: cis-1,2-Dichloroethene

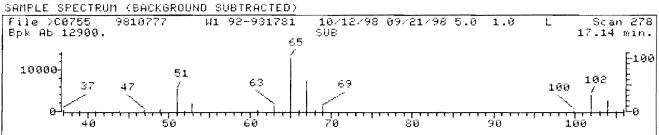
Scan Number: 230

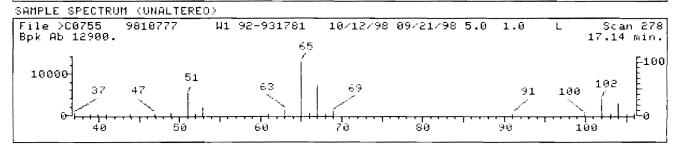
Retention Time: 14.96 min.

Quant Ion: 96.0 Area: 44584

> Concentration: 16.94 ug/1







Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 14

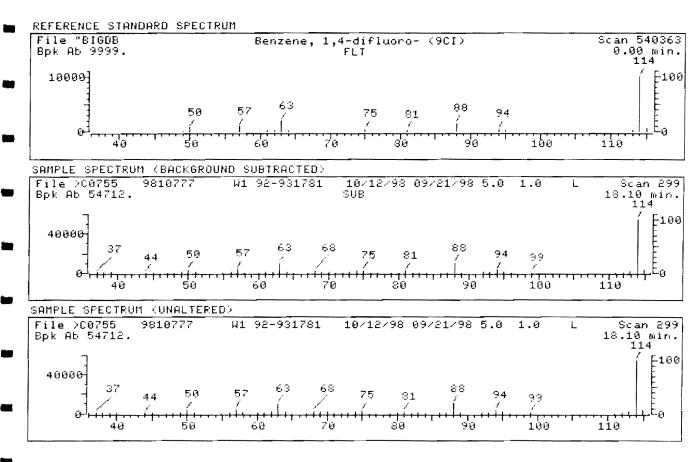
Compound Name: 1,2-Dichloroethane-d4

Scan Number: 278

Retention Time: 17.14 min.

Quant Ion: 65.0 Area: 100689

Concentration: 50.62 ug/1



Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 16 (ISTD)

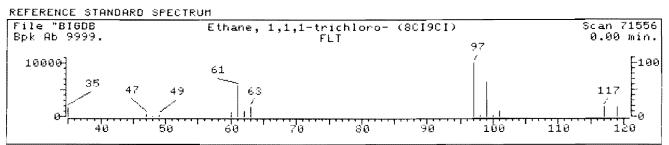
Compound Name: 1,4-Difluorobenzene

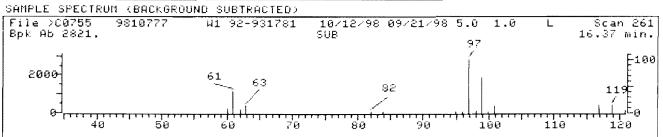
Scan Number: 299

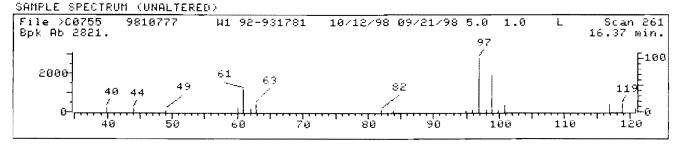
Retention Time: 18.10 min.

Quant Ion: 114.0 Area: 401359

Concentration: 50.00 ug/l







Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 18

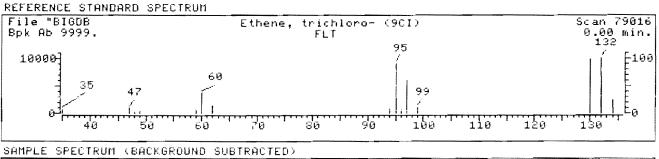
Compound Name: 1,1,1-Trichloroethane

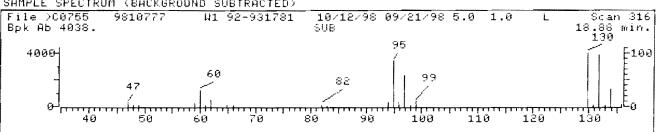
Scan Number: 261

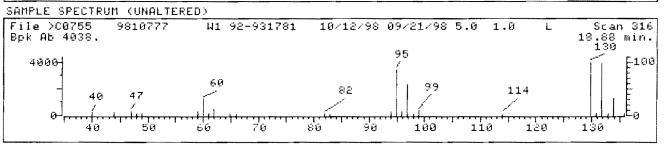
Retention Time: 16.37 min.

Quant Ion: 97.0 Area: 31893

Concentration: 7.46 ug/l







Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 23

Compound Name: Trichloroethene

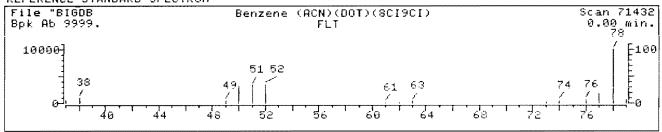
Scan Number: 316

Retention Time: 18.88 min.

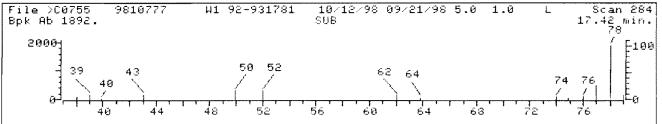
Quant Ion: 130.0 Area: 28578M

Concentration: 7.49 ug/l

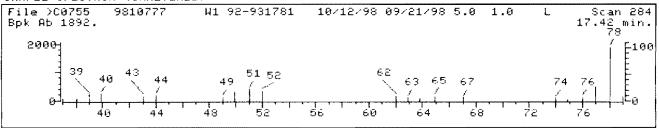
#### REFERENCE STANDARD SPECTRUM







# SAMPLE SPECTRUM (UNALTERED)



Data File: >C0755::Cl Quant Output File: ^C0755::QT

Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 24

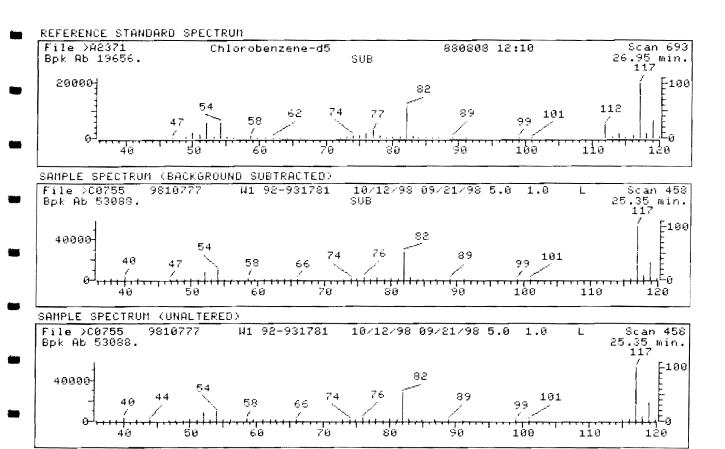
Compound Name: Benzene

Scan Number: 284

Retention Time: 17.42 min.

Quant Ion: 78.0 Area: 14538

Concentration: 1.96 ug/l



Name: 9810777 W1 92-93

Compound No: 29 (ISTD)

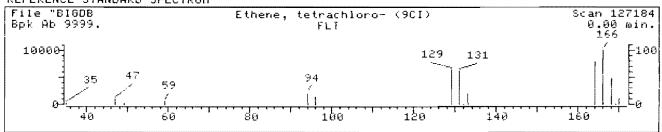
Compound Name: Chlorobenzene-d5

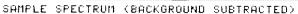
Scan Number: 458

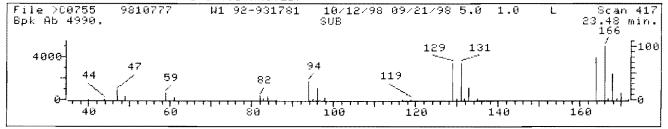
Retention Time: 25.35 min.

Quant Ion: 117.0 Area: 335732

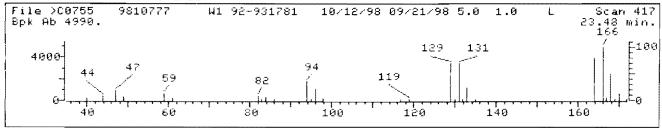
Concentration: 50.00 ug/l







SAMPLE SPECTRUM (UNALTERED)



Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 32

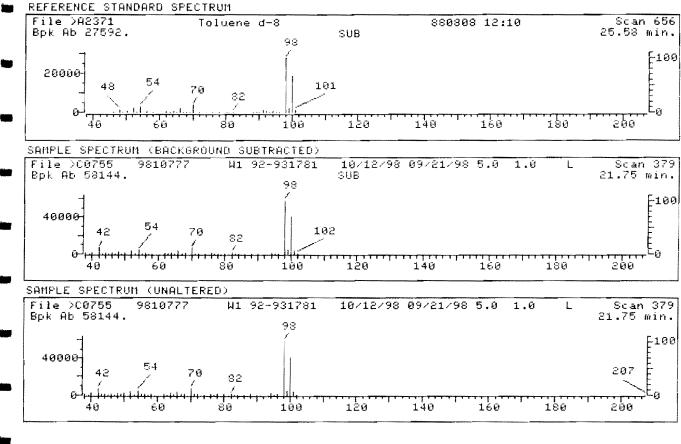
Compound Name: Tetrachloroethene

Scan Number: 417

Retention Time: 23.48 min.

Quant Ion: 164.0 Area: 25325

Concentration: 7.09 ug/l



Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 34

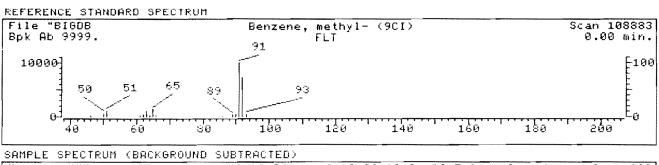
Compound Name: Toluene-d8

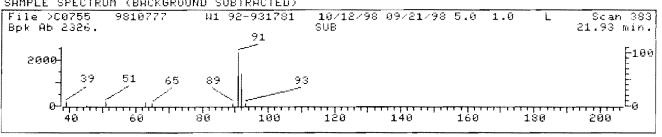
Scan Number: 379

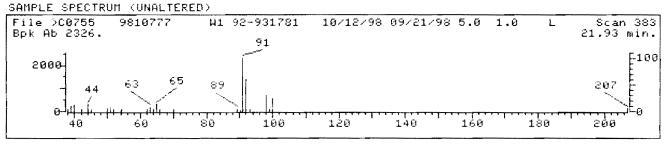
Retention Time: 21.75 min.

Quant Ion: 98.0 Area: 392478

Concentration: 48.06 ug/l







Name: 9810777 W1 92-93

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:14 Quant ID File: IDPA24::SC Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 35

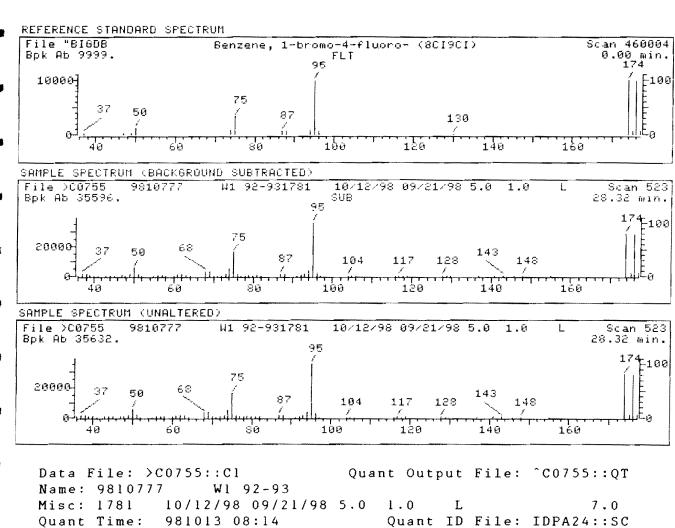
Compound Name: Toluene

Scan Number: 383

Retention Time: 21.93 min.

Quant Ion: 91.0 Area: 14894

Concentration: 1.63 ug/l



Injected at: 981012 17:20 Last Calibration: 981012 14:27

Compound No: 37

Compound Name: Bromofluorobenzene

Scan Number: 523

Retention Time: 28.32 min.

Quant Ion: 95.0 Area: 224279

Concentration: 47.68 ug/l

Sample: 9810777 W1 92-93 Operator: WILLIAM REG. GRP. 10/12/98 17:20

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS #: 0

Method file: ME624C Tuning file: MT7002 No. of extra records: 2 Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

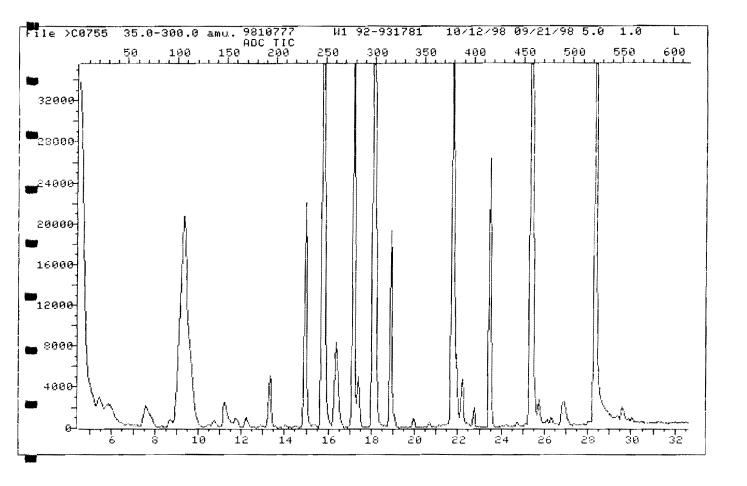
| Standard | lard Concentration Are |             | Retention<br>Time | Unknown<br>Window |       |  |
|----------|------------------------|-------------|-------------------|-------------------|-------|--|
| 1        |                        | / 7 / 1 2 0 | 15 70             | / E1              | 16 04 |  |
| 1        | 50.0                   | 476130.     | 15.78             | 4.51 -            | 16.94 |  |
| 2        | 50.0                   | 879533.     | 18.10             | 16.94 -           | 21.73 |  |
| 3        | 50.0                   | 956624.     | 25.35             | 21.73 -           | 32.60 |  |

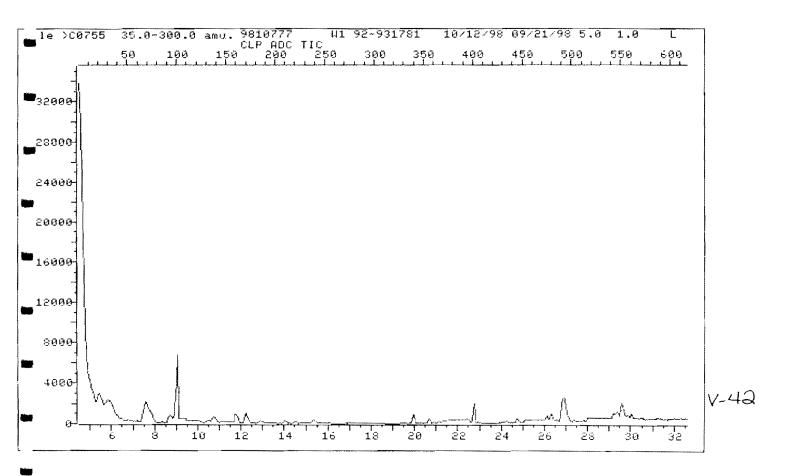
Rec Dil Factor (RDF) = 1.0000 Fractional Solids (FS) = 1.00 Dilution Factor (DF) = 1.00 Percent Solids (PS) = 0.00

Correction Factor = 1.00 = 1 / (RDF * FS)

Unknown Concentration = ----- * Area Unk * Correction Factor Area Int Std

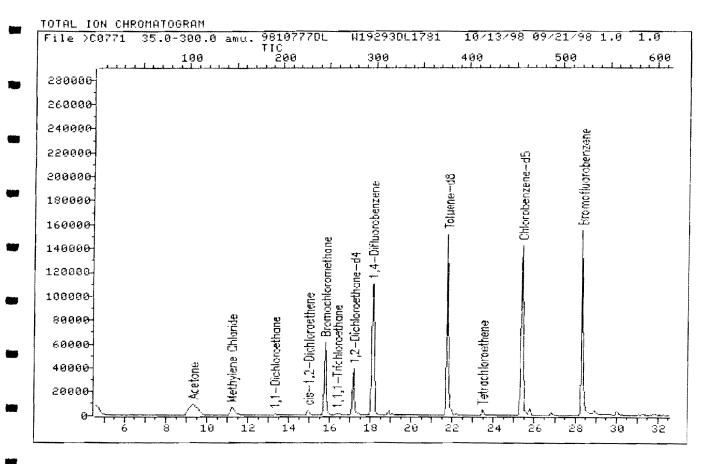
11:38 PM WED., 14 OCT., 1998





```
working...
draw complete...
```

working...
draw complete...
THERE WERE NO UNKNOWNS



Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981013 11:26

Operator ID: WILLIAM

Quant Time: 981013 13:40 Injected at: 981013 13:07

# QUANT REPORT

Operator ID: WILLIAM Quant Rev: 6 Quant Time: 981013 13:40

Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0

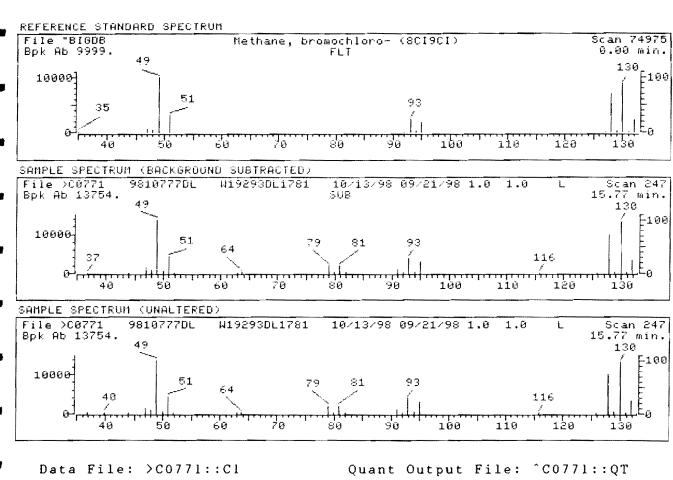
ID File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981013 11:26

|     | Compound               | R.T.  | Scan# | Area    | Conc  | Units | P  |  |
|-----|------------------------|-------|-------|---------|-------|-------|----|--|
| 1)  | *Bromochloromethane    | 15.77 | 247   | 74284   | 50.00 | ug/l  | 97 |  |
| 6)  | Methylene Chloride     | 11.21 | 147   | 25055   | 10.67 | ug/1  | 86 |  |
| 7)  | Acetone                | 9.34  | 106   | 14918   | 41.73 | ug/l  | 95 |  |
| 10) | l,l-Dichloroethane     | 13.30 | 193   | 4680    | 1.14  | ug/l  | 91 |  |
| 11) | cis-1,2-Dichloroethene | 14.94 | 229   | 7846    | 2.93  | ug/l  | 94 |  |
| 14) | l,2-Dichloroethane-d4  | 17.18 | 278   | 98860   | 48.79 | ug/l  | 81 |  |
| 16) | *1,4-Difluorobenzene   | 18.09 | 298   | 412057  | 50.00 | ug/l  | 75 |  |
| 18) | l,l,l-Trichloroethane  | 16.36 | 260   | 5020    | 1.09  | ug/l  | 96 |  |
| 29) | *Chlorobenzene-d5      | 25.39 | 458   | 341442  | 50.00 | ug/1  | 90 |  |
| 32) | Tetrachloroethene      | 23.47 | 416   | 4621    | 1.20  | ug/l  | 89 |  |
| 34) | Toluene-d8             | 21.74 | 378   | 400881  | 45.80 | ug/l  | 94 |  |
| 37) | Bromofluorobenzene     | 28.31 | 522   | 221292M | 45.10 | ug/1  |    |  |

^{*} Compound is ISTD



Name: 9810777DL W19293DL

Compound No: 1 (ISTD)

Compound Name: Bromochloromethane

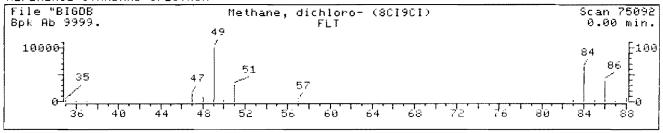
Scan Number: 247

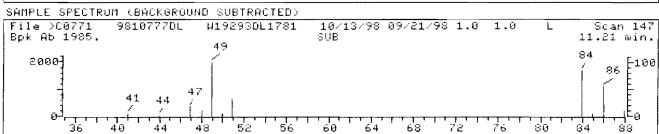
Retention Time: 15.77 min.

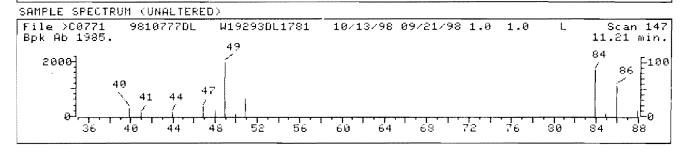
Quant Ion: 128.0 Area: 74284

Concentration: 50.00 ug/l

#### REFERENCE STANDARD SPECTRUM







Data File: >C0771::C1 Quant Output File: ^C0771::QT

Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0 Quant Time: 981013 13:40 Quant ID File: IDPA24::SC Injected at: 981013 13:07 Last Calibration: 981013 11:26

Compound No: 6

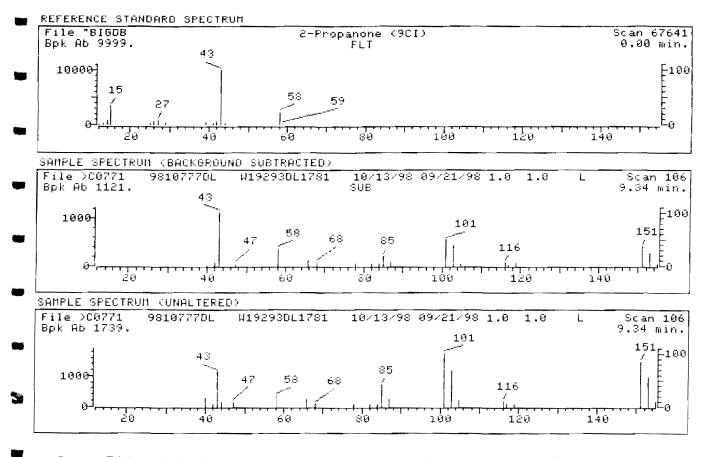
Compound Name: Methylene Chloride

Scan Number: 147

Retention Time: 11.21 min.

Quant Ion: 84.0 Area: 25055

Concentration: 10.67 ug/l



Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0 Quant Time: 981013 13:40 Quant ID File: IDPA24::SC

Injected at: 981013 13:07 Last Calibration: 981013 11:26

Compound No: 7

Compound Name: Acetone

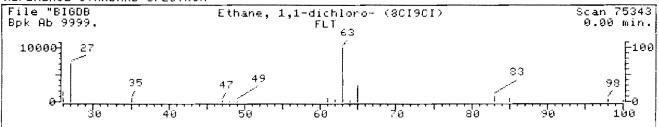
Scan Number: 106

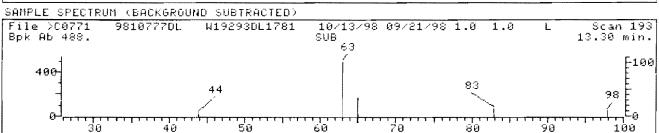
Retention Time: 9.34 min.

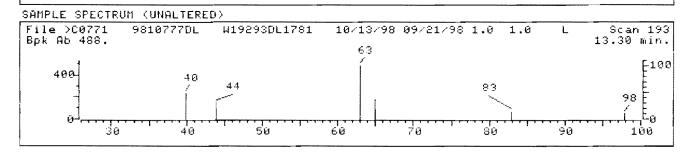
Quant Ion: 43.0 Area: 14918

Concentration: 41.73 ug/1









Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0 Quant Time: 981013 13:40 Quant ID File: IDPA24::SC Injected at: 981013 13:07 Last Calibration: 981013 11:26

Compound No: 10

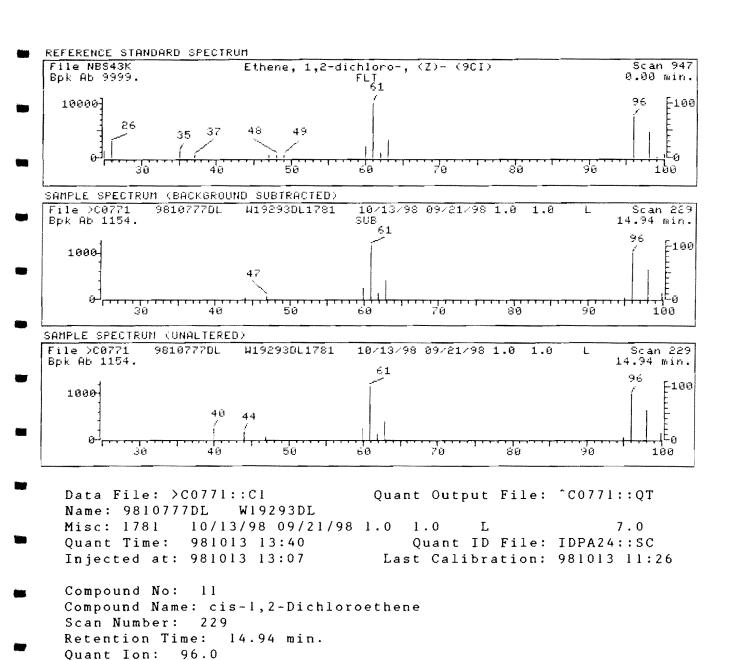
Compound Name: 1,1-Dichloroethane

Scan Number: 193

Retention Time: 13.30 min.

Quant Ion: 63.0 Area: 4680

Concentration: 1.14 ug/l



Area:

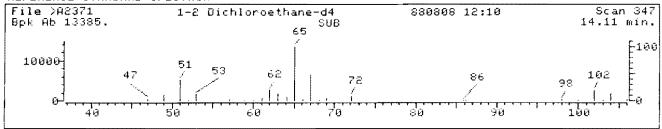
Concentration:

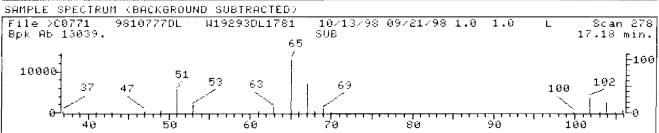
q-value: 94

7846

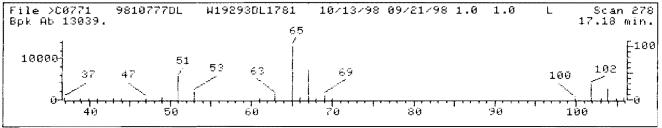
2.93 ug/1

#### REFERENCE STANDARD SPECTRUM









Data File: >C0771::Cl Quant Output File: ^C0771::QT

Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0 Quant Time: 981013 13:40 Quant ID File: IDPA24::SC Injected at: 981013 13:07 Last Calibration: 981013 11:26

Compound No: 14

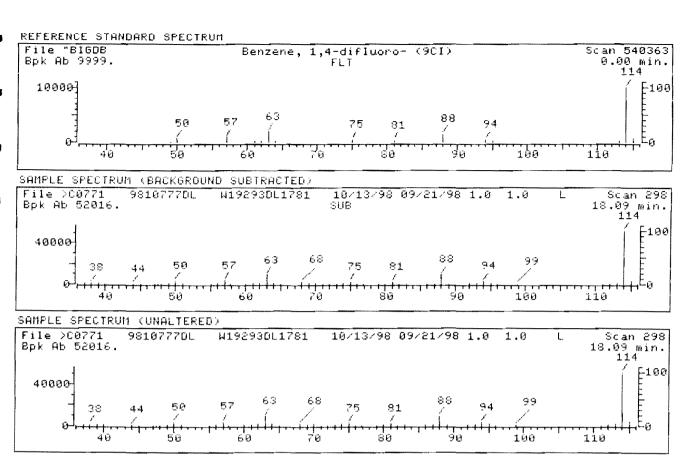
Compound Name: 1,2-Dichloroethane-d4

Scan Number: 278

Retention Time: 17.18 min.

Quant Ion: 65.0 Area: 98860

Concentration: 48.79 ug/l



Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0 Quant Time: 981013 13:40 Quant ID File: IDPA24::SC Injected at: 981013 13:07 Last Calibration: 981013 11:26

Compound No: 16 (ISTD)

Compound Name: 1,4-Difluorobenzene

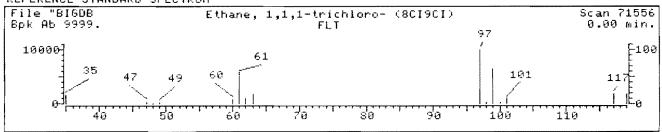
Scan Number: 298

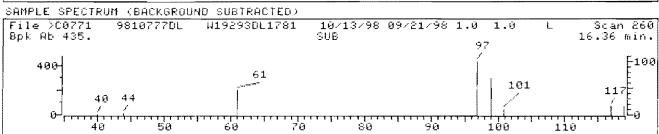
Retention Time: 18.09 min.

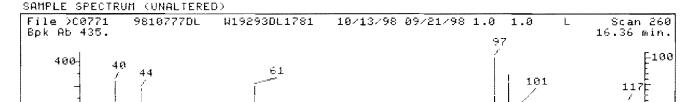
Quant Ion: 114.0 Area: 412057

Concentration: 50.00 ug/l

#### REFERENCE STANDARD SPECTRUM







90

100

110

Data File: >C0771::Cl Quant Output File: ^C0771::QT

80

70

Name: 9810777DL W19293DL

50

Compound No: 18

Compound Name: l,l,l-Trichloroethane

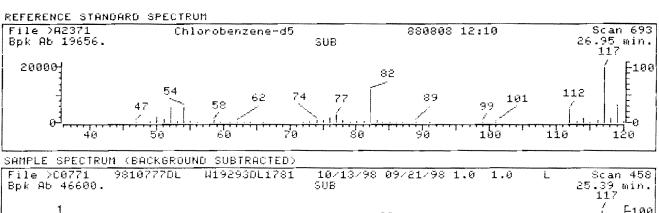
60

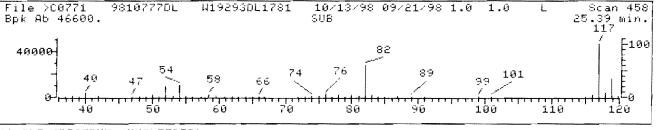
Scan Number: 260

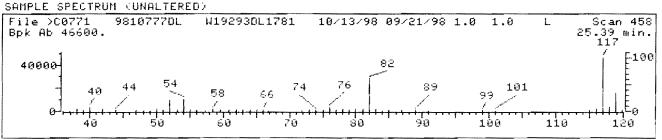
Retention Time: 16.36 min.

Quant Ion: 97.0 Area: 5020

Concentration: 1.09 ug/1







Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0 Quant Time: 981013 13:40 Quant ID File: IDPA24::SC Injected at: 981013 13:07 Last Calibration: 981013 11:26

Compound No: 29 (ISTD)

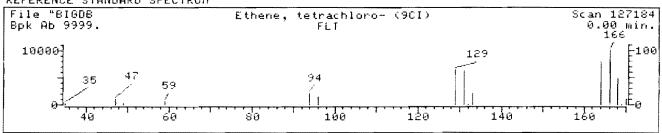
Compound Name: Chlorobenzene-d5

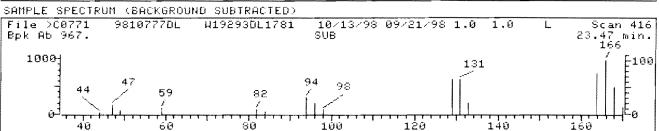
Scan Number: 458

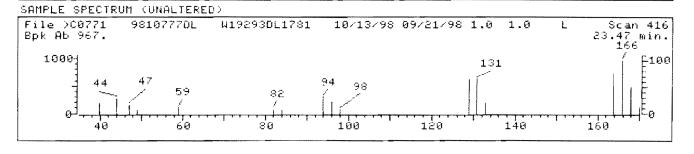
Retention Time: 25.39 min.

Quant Ion: 117.0 Area: 341442

Concentration: 50.00 ug/1







Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0 Quant Time: 981013 13:40 Quant ID File: IDPA24::SC Injected at: 981013 13:07 Last Calibration: 981013 11:26

Compound No: 32

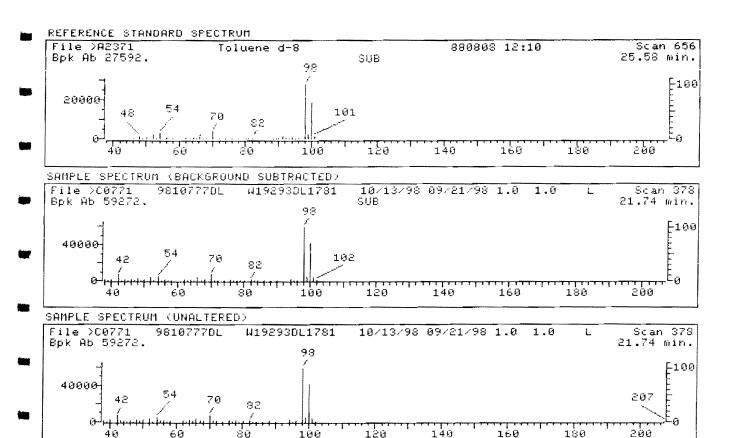
Compound Name: Tetrachloroethene

Scan Number: 416

Retention Time: 23.47 min.

Quant Ion: 164.0 Area: 4621

Concentration: 1.20 ug/1



Data File: >C0771::C1 Quant Output File: ^C0771::QT

Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0 Quant Time: 981013 13:40 Quant ID File: IDPA24::SC Injected at: 981013 13:07 Last Calibration: 981013 11:26

Compound No: 34

Compound Name: Toluene-d8

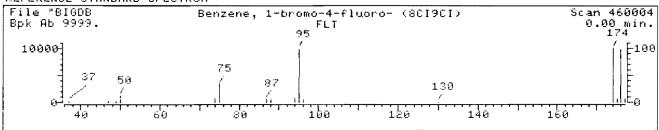
Scan Number: 378

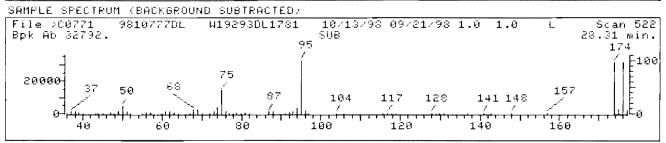
Retention Time: 21.74 min.

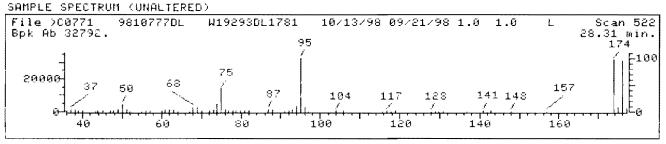
Quant Ion: 98.0 Area: 400881

Concentration: 45.80 ug/l

## REFERENCE STANDARD SPECTRUM







Data File: >C0771::C1 Quant Output File: ^C0771::QT

Name: 9810777DL W19293DL

Misc: 1781 10/13/98 09/21/98 1.0 1.0 L 7.0 Quant Time: 981013 13:40 Quant ID File: IDPA24::SC Injected at: 981013 13:07 Last Calibration: 981013 11:26

Compound No: 37

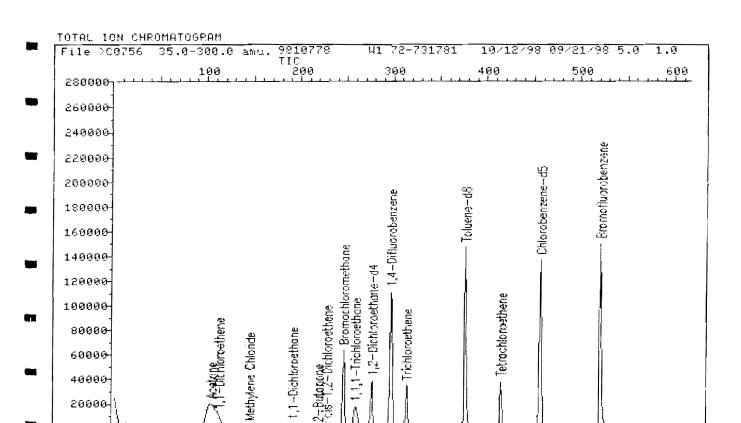
Compound Name: Bromofluorobenzene

Scan Number: 522

Retention Time: 28.31 min.

Quant Ion: 95.0 Area: 221292M

Concentration: 45.10 ug/l



Data File: >C0756::Cl Quant Output File: ^C0756::QT

18

20

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

Quant Time: 981013 08:15 Injected at: 981012 17:59

# QUANT REPORT

Operator ID: WILLIAM Quant Rev: 6 Quant Time: 981013 08:15 Output File: ^C0756::QT Injected at: 981012 17:59

Data File: >C0756::Cl Dilution Factor: 1.00000

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

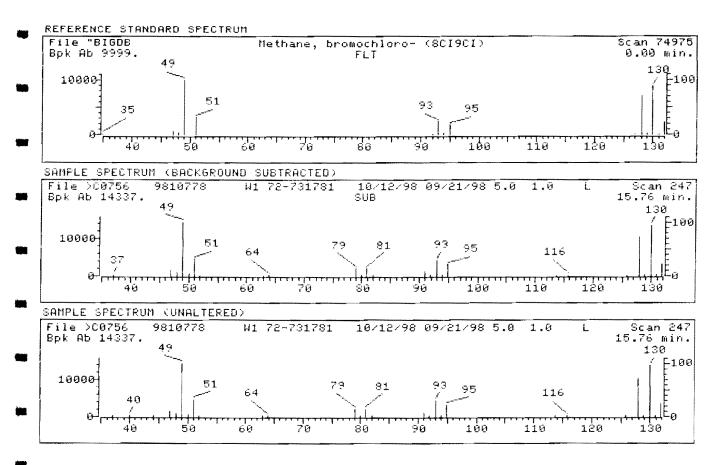
ID File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

|     | Compound               | R.T.  | Scan# | Area    | Conc  | Units | P   |
|-----|------------------------|-------|-------|---------|-------|-------|-----|
| 1)  | *Bromochloromethane    | 15.76 | 247   | 75095   | 50.00 | ug/l  | 97  |
| 6)  | Methylene Chloride     | 11.20 | 147   | 8153    | 3.62  | ug/1  | 8 7 |
| 7)  | Acetone                | 9.33  | 106   | 13332   | 48.60 | ug/l  | 93  |
| 9)  | l,l-Dichloroethene     | 9.70  | 114   | 20342   | 9.46  | ug/l  | 96  |
| 10) | l,l-Dichloroethane     | 13.30 | 193   | 16282   | 4.10  | ug/l  | 87  |
| 11) | cis-1,2-Dichloroethene | 14.94 | 229   | 8418    | 3.23  | ug/1  | 93  |
| 14) | l,2-Dichloroethane-d4  | 17.18 | 278   | 101570  | 51.61 | ug/l  | 84  |
| 16) | ≴l,4-Difluorobenzene   | 18.09 | 298   | 391299  | 50.00 | ug/l  | 76  |
| 17) | 2-Butanone             | 14.53 | 220   | 4580    | 7.56  | ug/1  | 99  |
| 18) | l,l,l-Trichloroethane  | 16.36 | 260   | 68268   | 16.37 | ug/l  | 94  |
| 23) | Trichloroethene        | 18.86 | 315   | 54158M  | 14.56 | ug/l  |     |
| 29) | *Chlorobenzene-d5      | 25.38 | 458   | 321913  | 50.00 | ug/1  | 91  |
| 32) | Tetrachloroethene      | 23.47 | 416   | 36474   | 10.64 | ug/1  | 91  |
| 34) | Toluene-d8             | 21.74 | 378   | 384015  | 49.04 | ug/l  | 94  |
| 37) | Bromofluorobenzene     | 28.30 | 522   | 209157M | 46.38 | ug/l  |     |

^{*} Compound is ISTD



Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 1 (ISTD)

Compound Name: Bromochloromethane

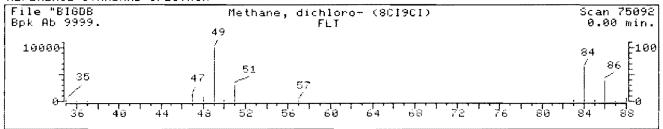
Scan Number: 247

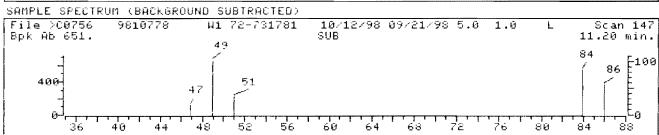
Retention Time: 15.76 min.

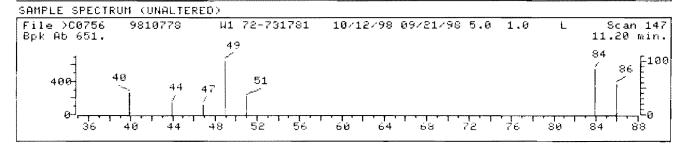
Quant Ion: 128.0 Area: 75095

Concentration: 50.00 ug/l

## REFERENCE STANDARD SPECTRUM







Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 6

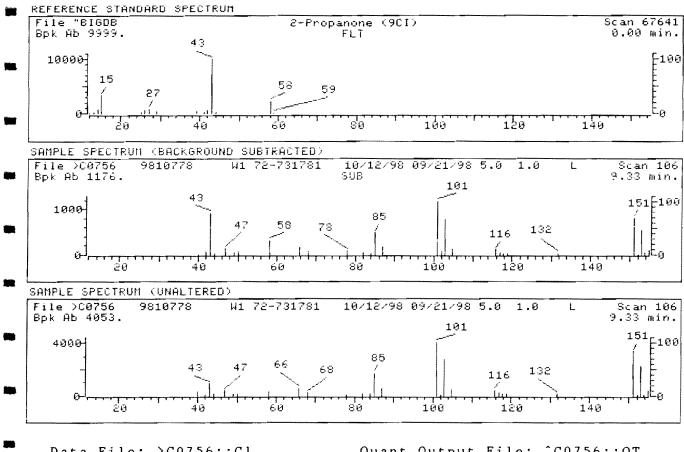
Compound Name: Methylene Chloride

Scan Number: 147

Retention Time: 11.20 min.

Quant Ion: 84.0 Area: 8153

Concentration: 3.62 ug/l



Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72 - 73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 7

Compound Name: Acetone

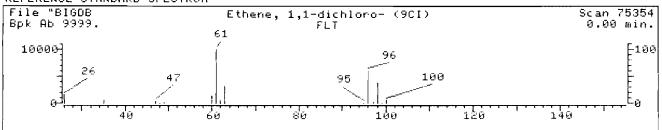
Scan Number: 106

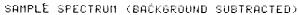
Retention Time: 9.33 min.

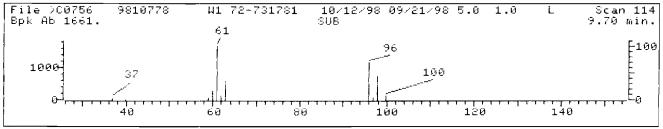
Quant Ion: 43.0 Area: 13332

Concentration: 48.60 ug/l

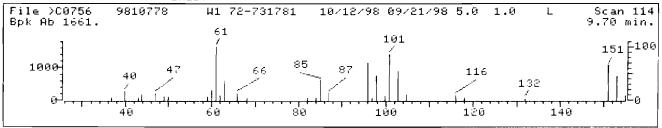
#### REFERENCE STANDARD SPECTRUM







SAMPLE SPECTRUM (UNALTERED)



Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 9

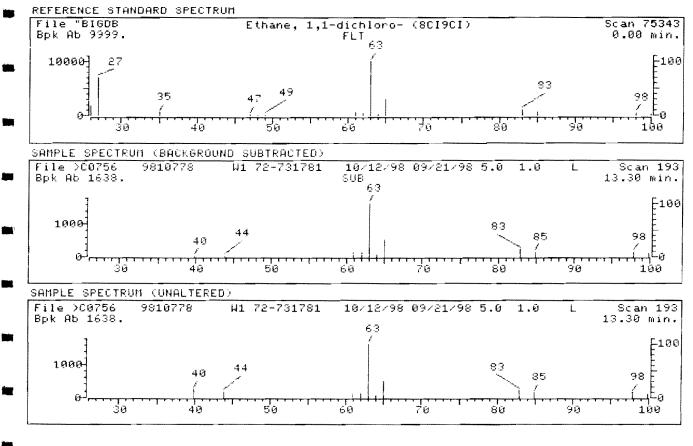
Compound Name: l,l-Dichloroethene

Scan Number: 114

Retention Time: 9.70 min.

Quant Ion: 96.0 Area: 20342

Concentration: 9.46 ug/l



Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC

Injected at: 981012 17:59

12 17:59 Last Calibration: 981012 14:27

Compound No: 10

Compound Name: 1,1-Dichloroethane

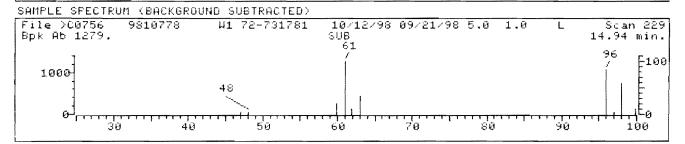
Scan Number: 193

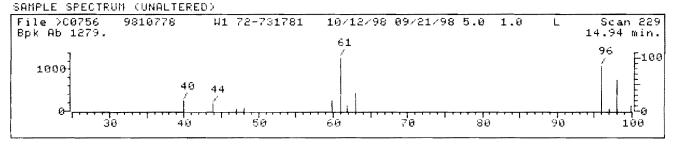
Retention Time: 13.30 min.

Quant Ion: 63.0 Area: 16282

Concentration: 4.10 ug/l

REFERENCE STANDARD SPECTRUM File NBS43K Ethene, 1,2-dichloro-, (Z)- (9CI) Scan 947 Bpk Ab 9999. 0.00 min. FLT 61 100001 F100 26 37 48 49 35 Lo. 70 90 60 ้ยย 100





Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 11

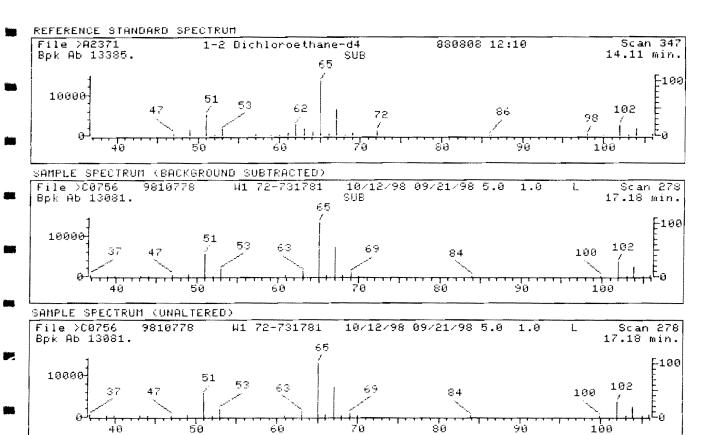
Compound Name: cis-1,2-Dichloroethene

Scan Number: 229

Retention Time: 14.94 min.

Quant Ion: 96.0 Area: 8418

Concentration: 3.23 ug/l



Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Compound No: 14

Compound Name: 1,2-Dichloroethane-d4

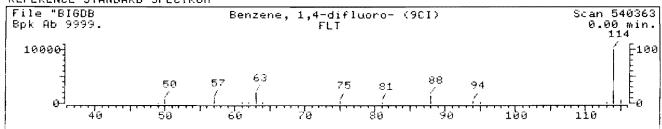
Scan Number: 278

Retention Time: 17.18 min.

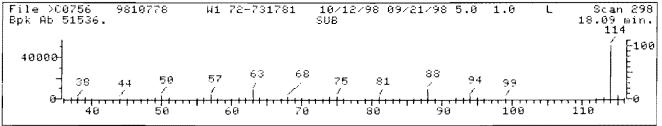
Quant Ion: 65.0 Area: 101570

Concentration: 51.61 ug/l

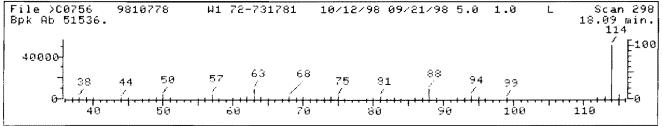
#### REFERENCE STANDARD SPECTRUM







#### SAMPLE SPECTRUM (UNALTERED)



Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 16 (ISTD)

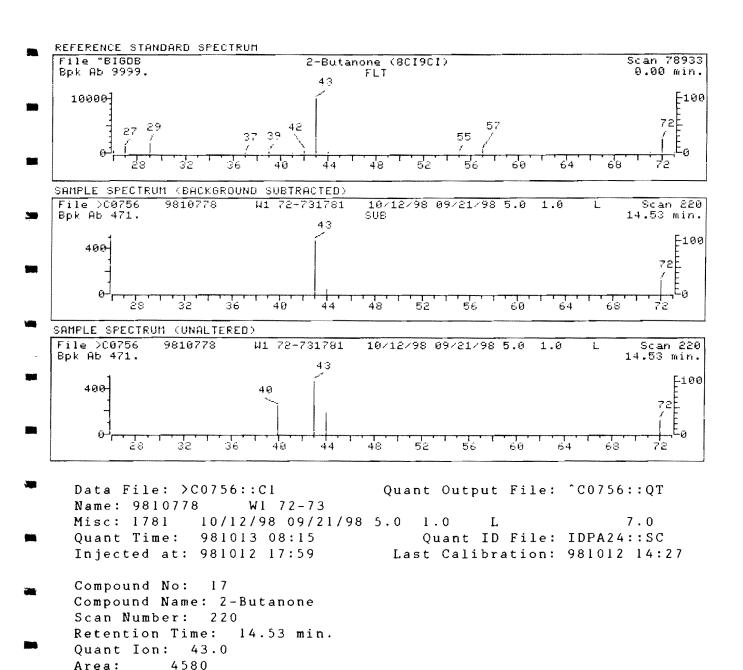
Compound Name: 1,4-Difluorobenzene

Scan Number: 298

Retention Time: 18.09 min.

Quant Ion: 114.0 Area: 391299

Concentration: 50.00 ug/l

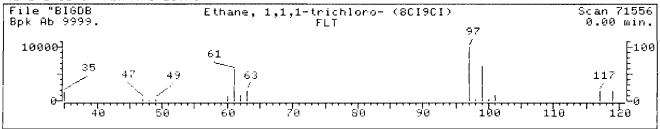


 $7.56 \, \text{ug/l}$ 

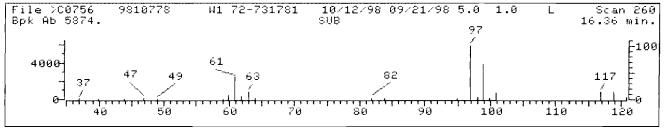
Concentration:

99

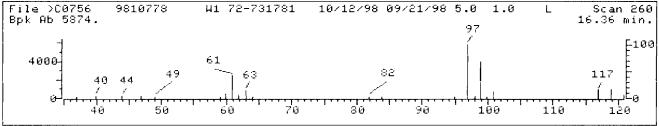
# REFERENCE STANDARD SPECTRUM







SAMPLE SPECTRUM (UNALTERED)



Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 18

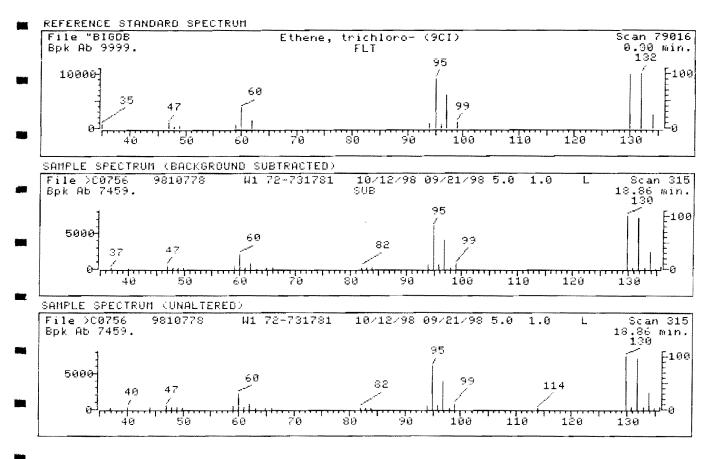
Compound Name: 1,1,1-Trichloroethane

Scan Number: 260

Retention Time: 16.36 min.

Quant Ion: 97.0 Area: 68268

Concentration: 16.37 ug/l



Data File: >C0756::C1 Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC

Injected at: 981012 17:59

Last Calibration: 981012 14:27

Compound No: 23

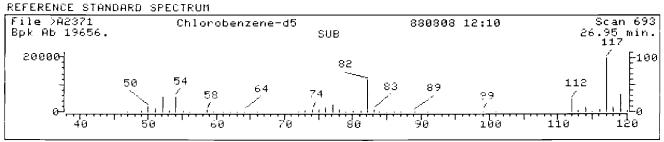
Compound Name: Trichloroethene

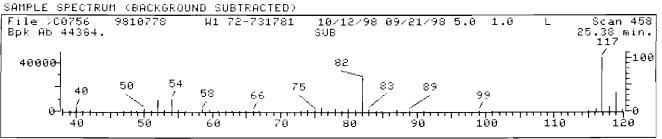
Scan Number: 315

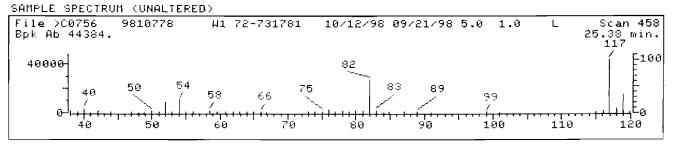
Retention Time: 18.86 min.

Quant Ion: 130.0 Area: 54158M

Concentration: 14.56 ug/l







Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 29 (ISTD)

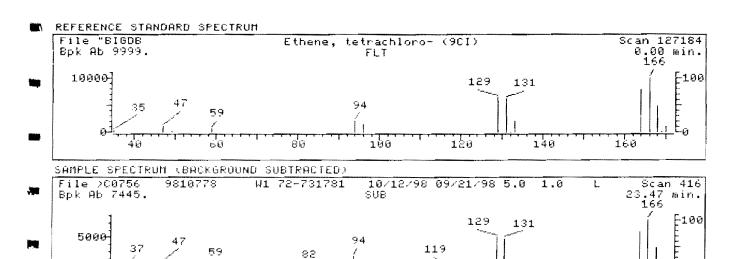
Compound Name: Chlorobenzene-d5

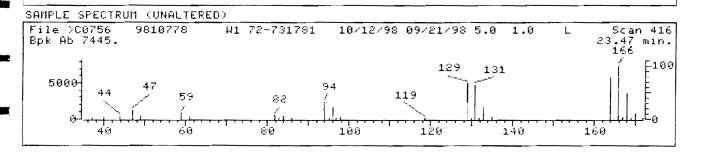
Scan Number: 458

Retention Time: 25.38 min.

Quant Ion: 117.0 Area: 321913

Concentration: 50.00 ug/l





100

120

Data File: >C0756::C1 Quant Output File: ^C0756::QT

Name: 9810778 W1 72 - 73

60

80

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Last Calibration: 981012 14:27

Injected at: 981012 17:59

Compound No: 32

40

Compound Name: Tetrachloroethene

Scan Number: 416

Retention Time: 23.47 min.

Quant Ion: 164.0 36474 Area:

Concentration: 10.64 ug/1

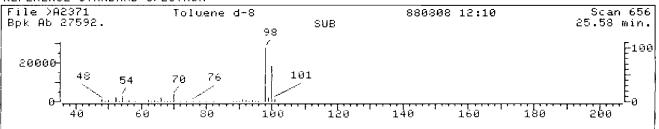
q-value: 91

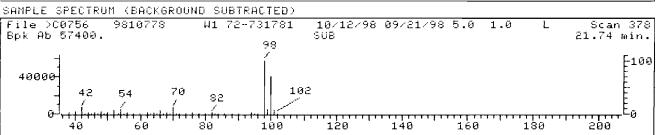
-a

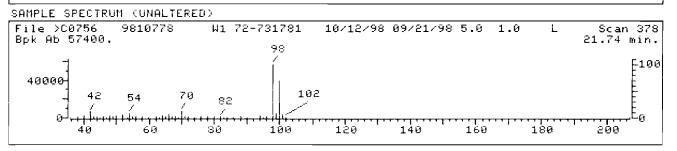
169

140

## REFERENCE STANDARD SPECTRUM







Data File: >C0756::Cl Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 34

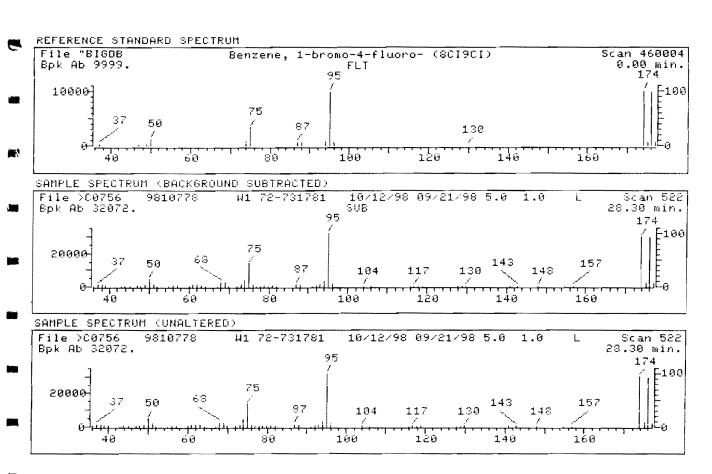
Compound Name: Toluene-d8

Scan Number: 378

Retention Time: 21.74 min.

Quant Ion: 98.0 Area: 384015

Concentration: 49.04 ug/1



Data File: >C0756::C1 Quant Output File: ^C0756::QT

Name: 9810778 W1 72-73

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:15 Quant ID File: IDPA24::SC Injected at: 981012 17:59 Last Calibration: 981012 14:27

Compound No: 37

Compound Name: Bromofluorobenzene

Scan Number: 522

Retention Time: 28.30 min.

Quant Ion: 95.0 Area: 209157M

Concentration: 46.38 ug/l

Sample: 9810778 W1 72-73 Operator: WILLIAM REG. GRP. 10/12/98 17:59

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS #: 0

Method file: ME624C Tuning file: MT7002 No. of extra records: 2 Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures: 30. 200. 0. 0. 0. Chromatographic times, min. : 8.0 1.2 0.0 0.0 0.0 Chromatographic rate, deg/min: 6.0 0.0 0.0 . l 0.0

9810778 W1 72-731781 10/12/98 09/21/98 5.0 1.0 L 35.01 300.0 CLP ADC TIC

Upslope: .20 Area Reject: 46613. Max Peaks: 1 Bunching: 1

Dnslope: 0.00 Results File ICO756 Sorted by Area/Area INT

Peak % of R.T. first last peak corr. corr. max raw # total min. scan area area % max. scan scan height _____ _____ ____ 1 9.11 93 101 102 13191 108602 107444 100.00 100.000

Sum of corrected areas: 107444. Summary of Unknowns PBM Library Search and Quantitation

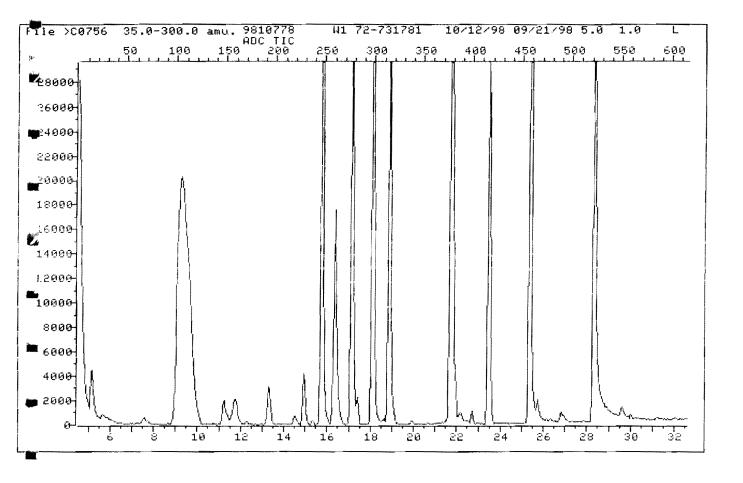
| Standard | Concentration | Area    | Retention<br>Time | Unknown<br>Window |       |  |
|----------|---------------|---------|-------------------|-------------------|-------|--|
|          |               |         |                   |                   |       |  |
| 1        | 50.0          | 466127. | 15.76             | 4.55 -            | 16.93 |  |
| 2        | 50.0          | 853721. | 18.09             | 16.93 -           | 21.74 |  |
| 3        | 50.0          | 921352. | 25.38             | 21.74 -           | 32.59 |  |

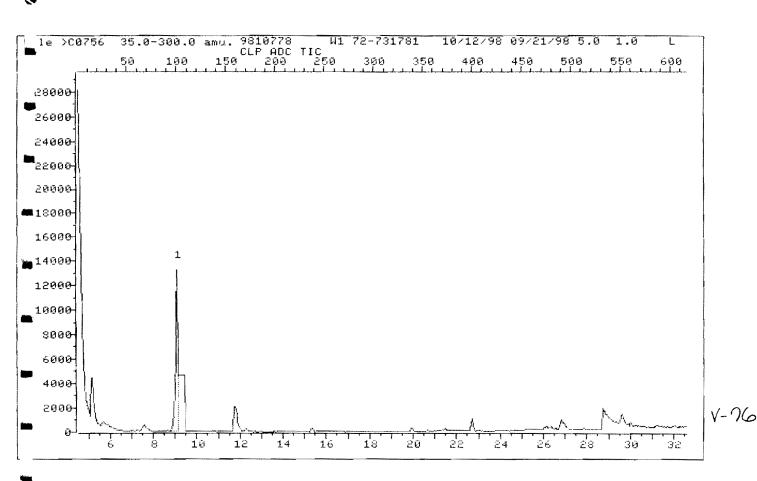
Rec Dil Factor (RDF) = 1.0000 Fractional Solids (FS) = 1.00Dilution Factor (DF) = 1.00 Percent Solids (PS) = 0.00

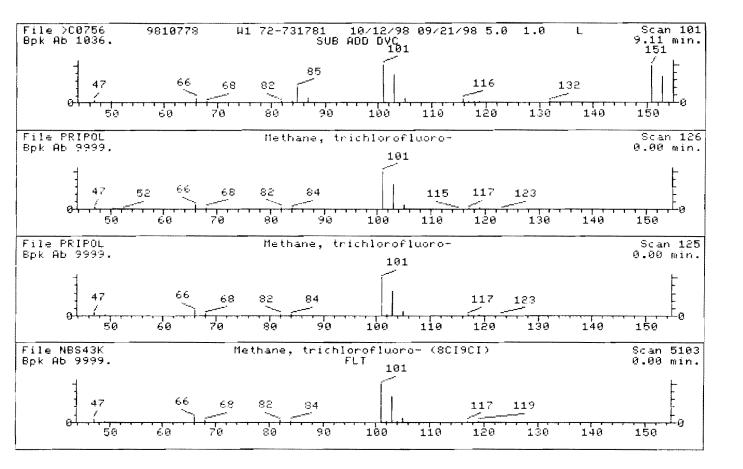
Correction Factor = 1.00 = 1 / (RDF * FS)

Conc Int Std Unknown Concentration = ----- * Area Unk * Correction Factor Area Int Std

11:45 PM WED., 14 OCT., 1998







. UNKNOWN #,1

AREA = 107444.0 TENTATIVE CONCENTRATION IS 12.00

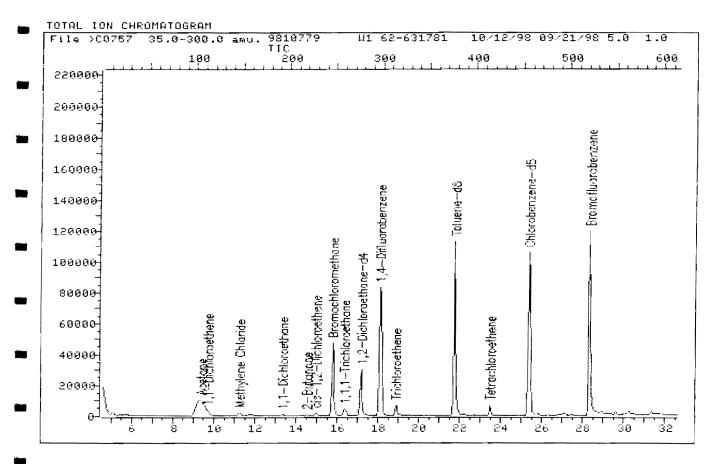
Methane, trichlorofluoro Methane, trichlorofluoro Methane, trichlorofluoro- (8CI9CI)
 Methane, trichlorofluoro Methane, trichlorofluoro-

Sample file: >C0756 Spectrum #: 101

Search speed: 1 Tilting option: N No. of ion ranges searched: 47

Prob. CAS # CON # ROOT K DK #FLG TILT CON C_I R_IV 1. 28 126 162 PRIPOL 7 1 22 1 0 100 51 8 35

V- 77



Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

Quant Time: 981013 08:18 Injected at: 981012 18:38

# QUANT REPORT

Operator ID: WILLIAM Quant Rev: 6 Quant Time: 981013 08:18 Output File: ^C0757::QT Injected at: 981012 18:38

Data File: >C0757::C1 Dilution Factor: 1.00000

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

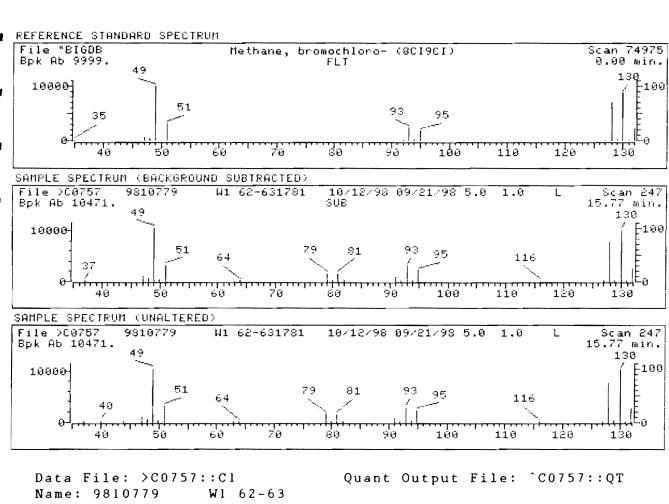
ID File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

|     | Compound               | R.T.  | Scan# | Area           | Conc  | Units | q   |
|-----|------------------------|-------|-------|----------------|-------|-------|-----|
| 1)  | *Bromochloromethane    | 15.77 | 247   | 57600          | 50.00 | ug/l  | 96  |
| 6)  | Methylene Chloride     | 11.25 | 148   | 6194           | 3.59  | ug/l  | 94  |
| 7)  | Acetone                | 9.38  | 107   | 10056          | 47.79 | ug/l  | 92  |
| 9)  | l,l-Dichloroethene     | 9.70  | 114   | 3262           | 1.98  | ug/l  | 97  |
| 10) | l,l-Dichloroethane     | 13.35 | 194   | 4683           | 1.54  | ug/l  | 8 7 |
| 11) | cis-l,2-Dichloroethene | 14.95 | 229   | 3218           | 1.61  | ug/l  | 94  |
| 14) | l,2-Dichloroethane-d4  | 17.18 | 278   | 78775          | 52.18 | ug/l  | 85  |
| 16) | ∴l,4-Difluorobenzene   | 18.10 | 298   | 299545         | 50.00 | ug/l  | 77  |
| 17) | 2-Butanone             | 14.54 | 220   | 3220           | 6.94  | ug/l  | 97  |
| 18) | l,l,l-Trichloroethane  | 16.36 | 260   | 15914          | 4.99  | ug/l  | 94  |
| 23) | Trichloroethene        | 18.87 | 315   | 10389 <b>M</b> | 3.65  | ug/l  |     |
| 29) | *Chlorobenzene-d5      | 25.35 | 457   | 248715         | 50.00 | ug/l  | 84  |
| 32) | Tetrachloroethene      | 23.48 | 416   | 6290           | 2.38  | ug/l  | 91  |
| 34) | Toluene-d8             | 21.75 | 378   | 294804         | 48.73 | ug/l  | 94  |
| 37) | Bromofluorobenzene     | 28.31 | 522   | 167301         | 48.01 | ug/l  | 8 2 |

^{*} Compound is ISTD



Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 1 (ISTD)

Compound Name: Bromochloromethane

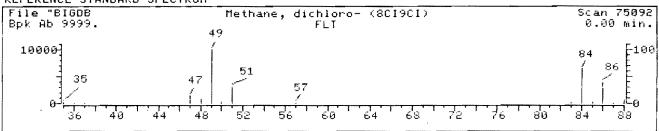
Scan Number: 247

Retention Time: 15.77 min.

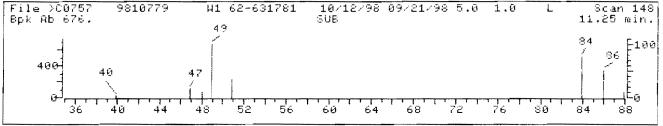
Quant Ion: 128.0 Area: 57600

Concentration: 50.00 ug/1

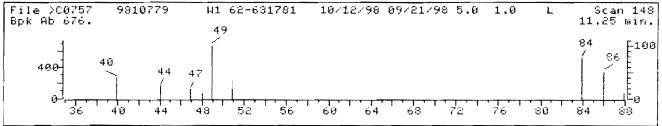












Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 981013 08:18 Quant Time: Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 6

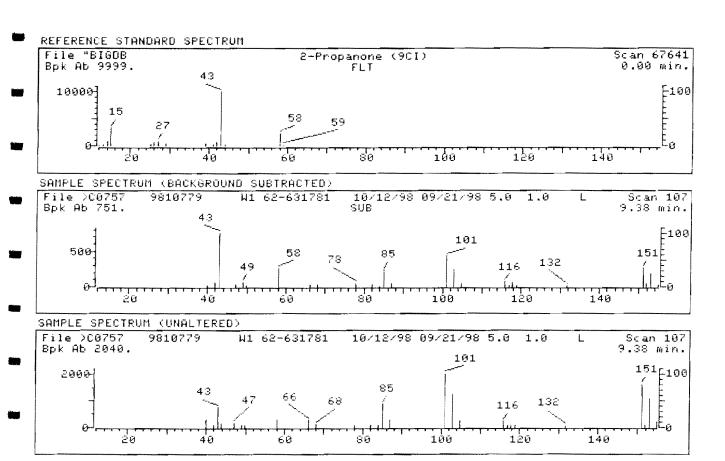
Compound Name: Methylene Chloride

Scan Number: 148

Retention Time: 11.25 min.

Quant Ion: 84.0 Area: 6194

Concentration: 3.59 ug/1



Data File: >C0757::C1 Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 7

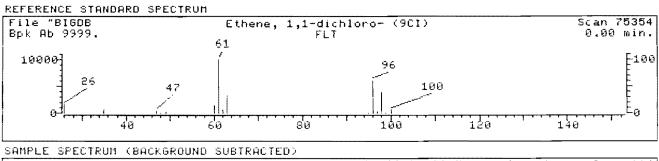
Compound Name: Acetone

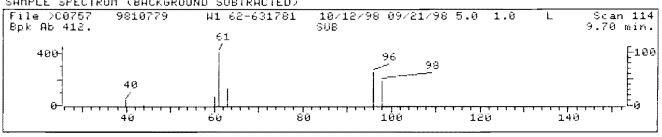
Scan Number: 107

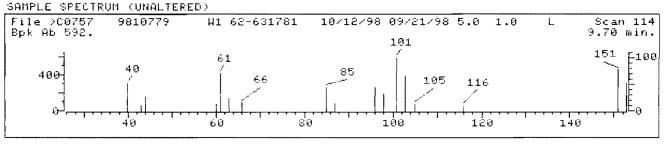
Retention Time: 9.38 min.

Quant Ion: 43.0 Area: 10056

Concentration: 47.79 ug/1







Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 9

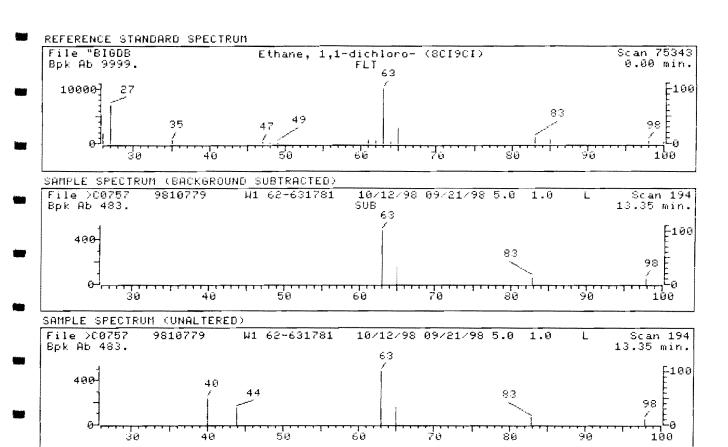
Compound Name: 1,1-Dichloroethene

Scan Number: 114

Retention Time: 9.70 min.

Quant Ion: 96.0 Area: 3262

Concentration: 1.98 ug/1



Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 10

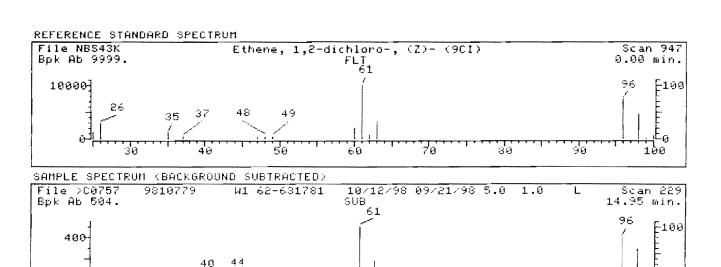
Compound Name: 1,1-Dichloroethane

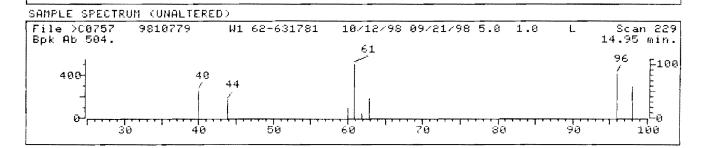
Scan Number: 194

Retention Time: 13.35 min.

Quant Ion: 63.0 Area: 4683

Concentration: 1.54 ug/l





60

76

50

Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

40

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 11

Compound Name: cis-1,2-Dichloroethene

Scan Number: 229

Retention Time: 14.95 min.

Quant Ion: 96.0 Area: 3218

Concentration: 1.61 ug/l

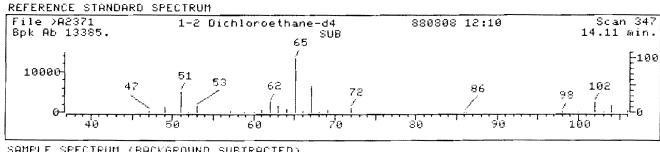
q-value: 94

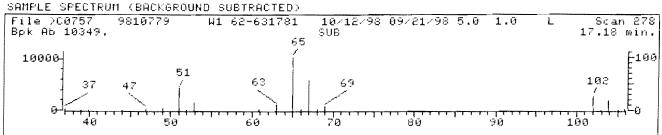
-0

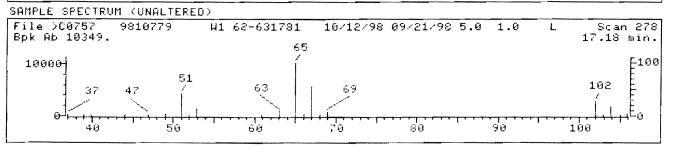
100

90

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Data File: >C0757::C1 Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC

Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 14

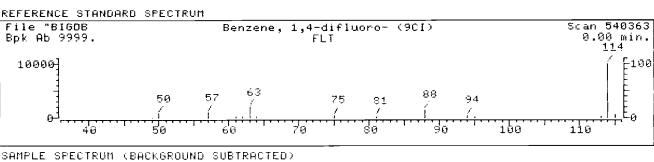
Compound Name: 1,2-Dichloroethane-d4

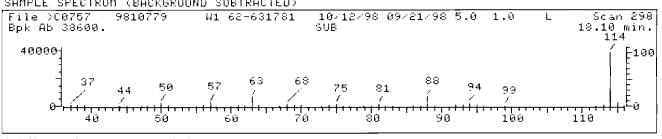
Scan Number: 278

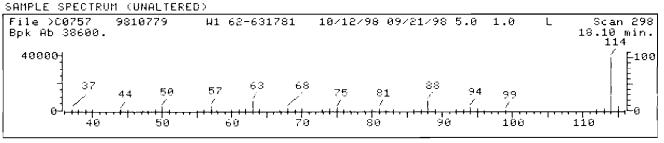
Retention Time: 17.18 min.

Quant Ion: 65.0 Area: 78775

Concentration: 52.18 ug/1







Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 16 (ISTD)

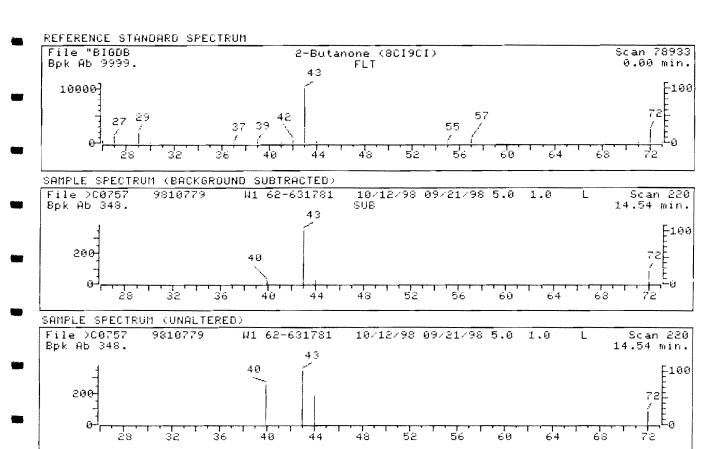
Compound Name: 1,4-Difluorobenzene

Scan Number: 298

Retention Time: 18.10 min.

Quant Ion: 114.0 Area: 299545

Concentration: 50.00 ug/l



Data File: >C0757::C1 Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 17

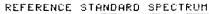
Compound Name: 2-Butanone

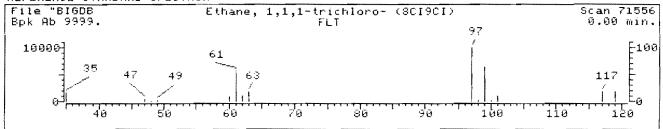
Scan Number: 220

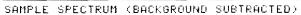
Retention Time: 14.54 min.

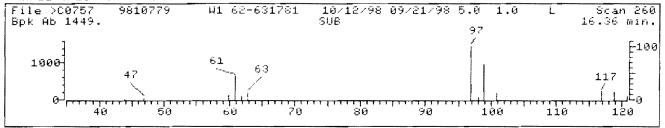
Quant Ion: 43.0 Area: 3220

Concentration: 6.94 ug/l

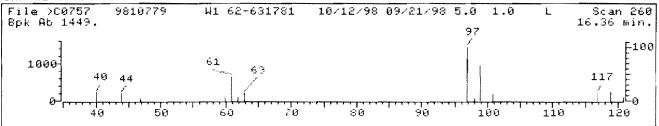








SAMPLE SPECTRUM (UNALTERED)



Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 18

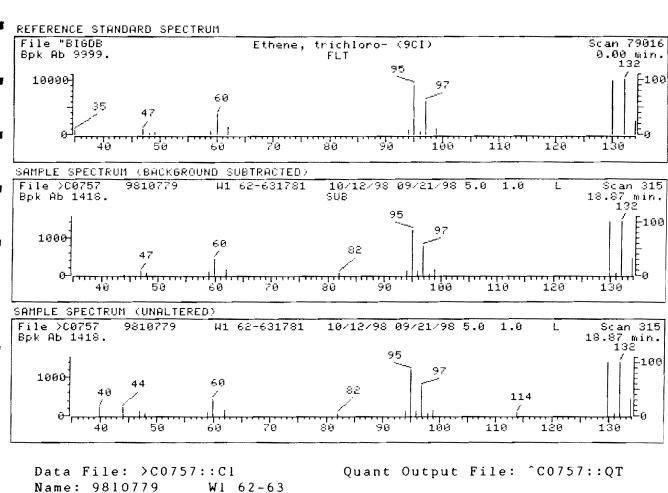
Compound Name: 1,1,1-Trichloroethane

Scan Number: 260

Retention Time: 16.36 min.

Quant Ion: 97.0 Area: 15914

Concentration: 4.99 ug/l



Misc: 1781 10/12/98 09/21/98 5.0 1.0 L Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 23

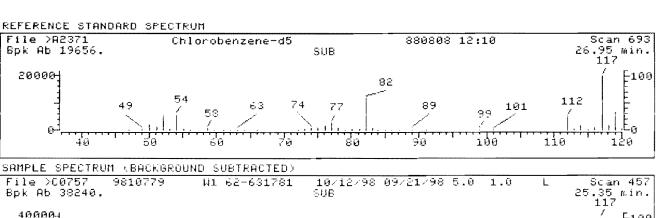
Compound Name: Trichloroethene

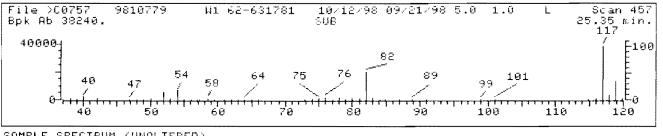
Scan Number: 315

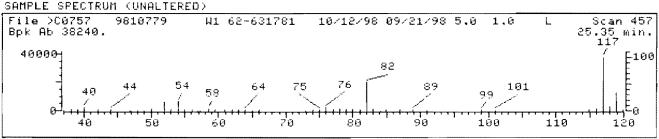
Retention Time: 18.87 min.

Quant Ion: 130.0 Area: 10389M

Concentration:  $3.65 \, \text{ug/l}$ 







Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 29 (ISTD)

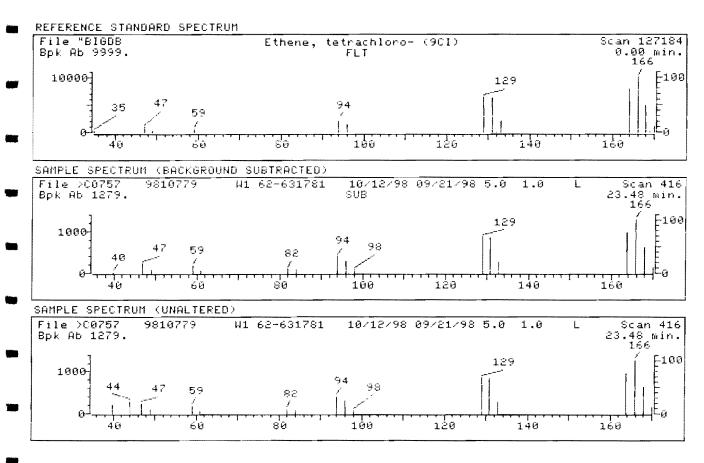
Compound Name: Chlorobenzene-d5

Scan Number: 457

Retention Time: 25.35 min.

Quant Ion: 117.0 Area: 248715

Concentration: 50.00 ug/l



Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC

Injected at: 981012 18:38

Last Calibration: 981012 14:27

Compound No: 32

Compound Name: Tetrachloroethene

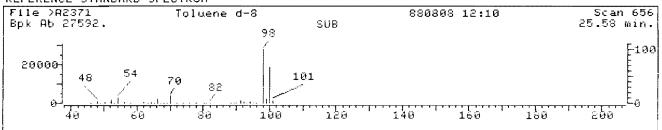
Scan Number: 416

Retention Time: 23.48 min.

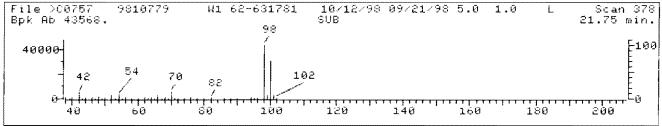
Quant Ion: 164.0 Area: 6290

Concentration: 2.38 ug/l

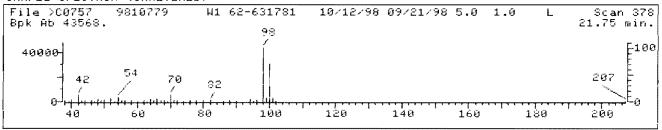
#### REFERENCE STANDARD SPECTRUM







#### SAMPLE SPECTRUM (UNALTERED)



Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 34

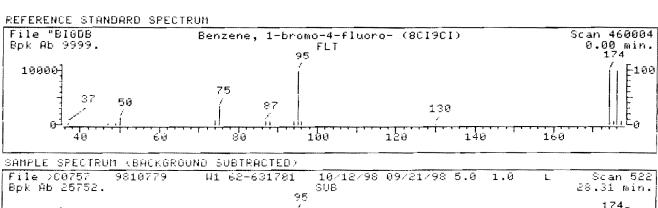
Compound Name: Toluene-d8

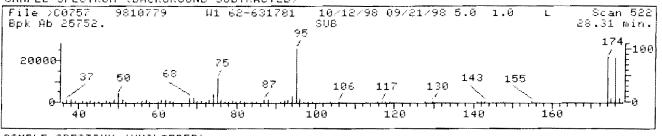
Scan Number: 378

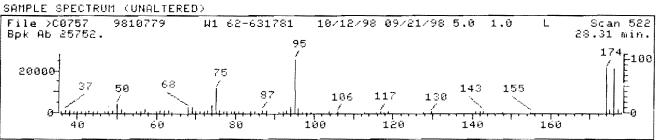
Retention Time: 21.75 min.

Quant Ion: 98.0 Area: 294804

Concentration: 48.73 ug/1







Data File: >C0757::Cl Quant Output File: ^C0757::QT

Name: 9810779 W1 62-63

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0 Quant Time: 981013 08:18 Quant ID File: IDPA24::SC Injected at: 981012 18:38 Last Calibration: 981012 14:27

Compound No: 37

Compound Name: Bromofluorobenzene

Scan Number: 522

Retention Time: 28.31 min.

Quant Ion: 95.0 Area: 167301

Concentration: 48.01 ug/1

Sample: 9810779 W1 62-63 Operator: WILLIAM REG. GRP. 10/12/98 18:38

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS #: 0

Method file: ME624C Tuning file: MT7002 No. of extra records: 2 Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures: 30. 200. 0. 0. 0. Chromatographic times, min.: 8.0 1.2 0.0 0.0 Chromatographic rate, deg/min: 6.0 0.0 0.0 .1 0.0

>C0757 9810779 W1 62-631781 10/12/98 09/21/98 5.0 1.0 L

35.01 300.0 CLP ADC TIC

Upslope: .20 Area Reject: 35661. Max Peaks: l Bunching: l Dnslope: 0.00 Results File IC0757 Sorted by Area/Area INT

|   |      |    |     |     | •    |       | corr.<br>area |        |         |
|---|------|----|-----|-----|------|-------|---------------|--------|---------|
|   |      |    |     |     |      |       |               |        |         |
| 1 | 9.15 | 93 | 102 | 103 | 6960 | 56743 | 55429         | 100.00 | 100.000 |

Sum of corrected areas: 55429. Summary of Unknowns PBM Library Search and Quantitation

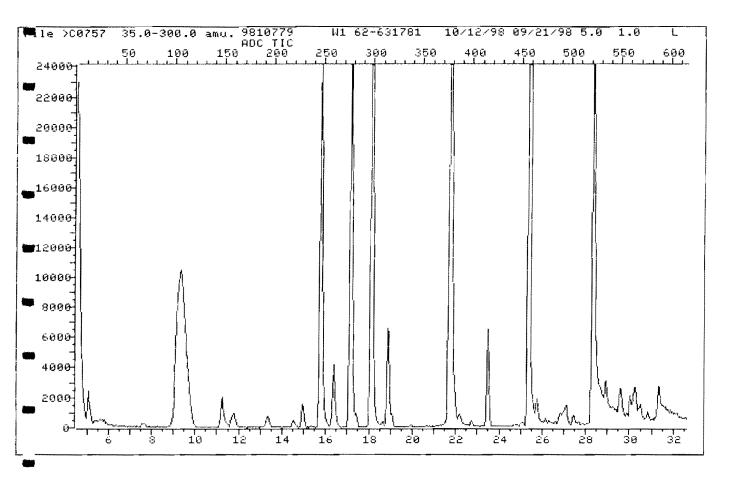
| Standard | Concentration Area |         | Retention<br>Time | Unknown<br>Window |       |  |
|----------|--------------------|---------|-------------------|-------------------|-------|--|
|          |                    |         |                   |                   |       |  |
| 1        | 50.0               | 356606. | 15.77             | 4.55 -            | 16.93 |  |
| 2        | 50.0               | 648090. | 18.10             | 16.93 -           | 21.72 |  |
| 3        | 50.0               | 712090. | 25.35             | 21.72 -           | 32.60 |  |

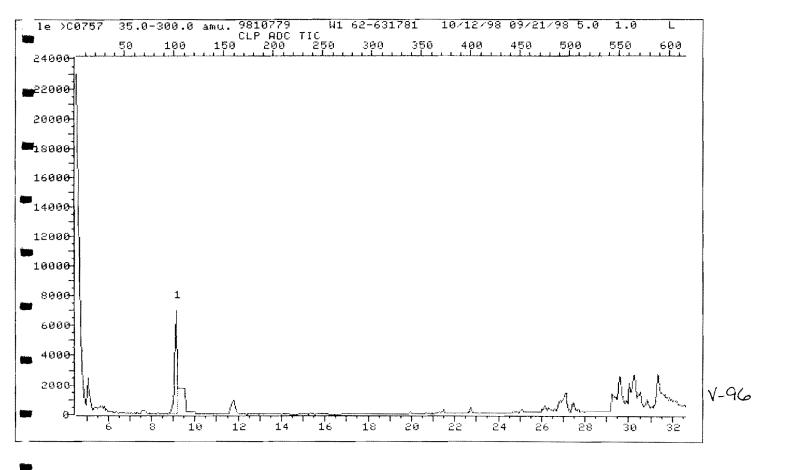
Rec Dil Factor (RDF) = 1.0000 Fractional Solids (FS) = 1.00 Dilution Factor (DF) = 1.00 Percent Solids (PS) = 0.00

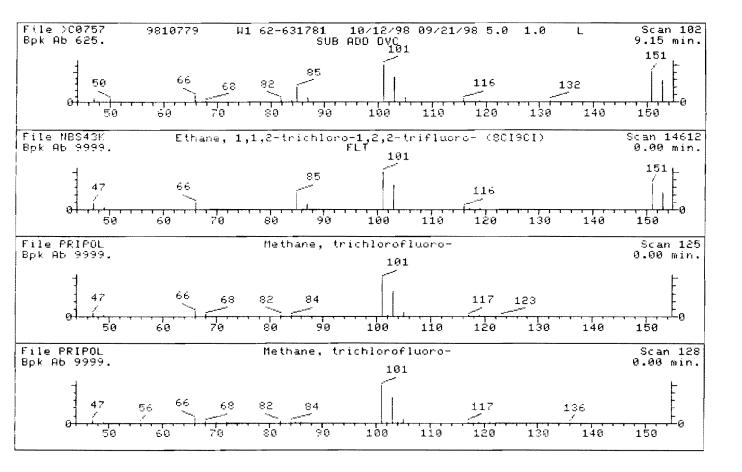
Correction Factor = 1.00 = 1 / (RDF * FS)

Unknown Concentration = ----- * Area Unk * Correction Factor Area Int Std

11:54 PM WED., 14 OCT., 1998







. UNKNOWN #,1

AREA = 55429.00 TENTATIVE CONCENTRATION IS 8.00

1. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (8CI9CI)

2. Methane, trichlorofluoro
3. Methane, trichlorofluoro
4. Methane, trichlorofluoro- (8CI9CI)

186 C2C13F3

136 CC13F

136 CC13F

Sample file: >C0757 Spectrum #: 102
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

CAS # CON # ROOT Κ DK Prob. #FLG TILT CON C_I R_IV 76131 9515 NBS43K 85 53 2 l. 83 0 87 1 57 23

#### 6A VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ACCREDITED LABS, INC. Contract: _____

Lab Code: 11109 Case No.: SAS No.: ____ SDG No.:

Instrument ID: HP5970C Calibration Date(s): 08/24/98

Heated Purge: (Y/N) N Calibration Times: 12:39 15:02

GC Column: RTX-502 ID: 0.53 (mm)

|                             | = >C986  |        |        | 0 = > C9<br>00 = > C9 |        |        | 1   |
|-----------------------------|----------|--------|--------|-----------------------|--------|--------|-----|
|                             | )= >C986 | 1      | RRF 2  |                       | 002    |        |     |
| COMPOUND                    | RRF10    | RRF20  | •      | •                     | RRF200 | •      | RS  |
| Chloromethane               | .8585    | i      | .7752  | ı                     | .7227  | .8203  | ł   |
|                             | *1.3693  |        |        |                       |        |        |     |
| Vinyl Chloride              | * .9437  | .9576  |        |                       |        |        |     |
| Chloroethane                | 1 0040   | 0040   | 0712   | 0001                  | 0773   | 0071   | 1 ~ |
| Methylene Chloride          | 2 4723   | 2.0828 | 1.6419 | 1.7667                | 1.6579 | 1.9243 | 18  |
| Acetone                     | 2738     | 2181   | .1843  | .1769                 | .1918  | .2090  | 18  |
| Carbon Disulfide            |          |        | 4.0775 |                       |        | 4.2969 |     |
|                             | *1.7171  |        |        |                       |        | 1.7245 |     |
|                             | *3.2001  |        |        |                       |        | 3.2262 |     |
| ,2-Dichloroethene (total)   | 11.9198  | 2.0261 | 1.8221 | 2.0941                | 1.8882 | 1.9501 |     |
| chloroform (550al)          | *3.5286  | 3.6691 | 3.3182 | 3.8662                |        | 3.5735 |     |
|                             | *1.7414  |        |        |                       |        |        |     |
| -Butanone                   | 0601     |        |        |                       |        |        |     |
|                             | * .6127  |        |        |                       | .6441  |        |     |
| arbon Tetrachloride         | * .5174  | .5530  |        |                       |        | .5581  |     |
| romodichloromethane         | * .5105  | .5248  |        |                       |        |        |     |
| ,2-Dichloropropane          | .3307    |        |        |                       | .3535  |        |     |
| is-1,3-Dichloropropene      | * .4323  | .4409  |        |                       |        | .4624  |     |
| richloroethene              | * .4825  | .4924  |        | .5161                 | .4774  |        |     |
| ibromochloromethane         | * .4165  | .4292  |        | .4990                 | .5203  |        |     |
| ,1,2-Trichloroethane        | * .2507  | .2463  |        |                       | .2781  | .2589  | 5.  |
| enzene                      | * .9699  | .9722  |        | 1.0224                | .9520  | .9642  | 4.  |
| rans-1,3-Dichloropropene    | * .3147  | .3254  | .3373  |                       | .3980  | .3516  | 10. |
| romoform                    | * .2524  | .2669  | .2965  | .3335                 | .3592  | .3017  | 14. |
| -Methyl-2-pentanone         | .2146    |        |        |                       | .2616  |        |     |
| -Hexanone                   | .1190    | .1307  |        |                       | .1650  | .1393  | 12. |
| etrachloroethene            | * .5965  | .6281  |        |                       | .5599  |        |     |
| ,1,2,2-Tetrachloroethane    | * .3390  | .3408  |        |                       | .4139  |        |     |
| oluene                      | *1.5416  | 1.6160 | 1.4667 | 1.6530                | 1.4773 | 1.5509 | 5.  |
| hlorobenzene                | *1.1499  |        |        |                       |        |        |     |
| CITATOETIZETIE              | * .6306  | .6123  | .5517  | .6434                 | .5780  | .6032  |     |
| tyrene                      | *1.0498  | 1.1023 |        | 1.2312                |        |        |     |
| ylene (total)               | * .7240  |        | .6742  |                       | .6983  |        | l . |
| oluene-d8                   | 1.3932   |        | 1.3056 | 1                     |        |        | ı   |
|                             | * .7107  |        | .7096  |                       | .7563  |        |     |
| ,2-Dichloroethane-d4        | 1.4009   | 1.4233 | 1.3236 |                       | 1.4517 |        | 5.  |
| Compounds with required min |          |        |        |                       |        |        | _   |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

#### 7A VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: 11109 Case No.: SAS No.: SDG No.:

Instrument ID: HP5970C Calibration Date: 10/12/98 Time: 13:39

Heated Purge: (Y/N) N Init. Calib. Times: 12:39 15:02

GC Column: RTX-502 ID: 0.53 (mm)

|                             |              |              | MIN     |              | MAX  |
|-----------------------------|--------------|--------------|---------|--------------|------|
| COMPOUND                    | RRF          | RRF50        | RRF     | %D<br>====== | %D   |
| Chloromethane               | .8203        | .7362        | 1       | 10.25        |      |
| Bromomethane                | 1.3924       | 1.3586       | 0.100   | 2.43         | 25.0 |
| Vinyl Chloride              | .8691        | 1.0161       | 0.100   | 16.92        | 25.0 |
| Chloroethane                | .9271        | .9284        |         | .14          |      |
| Methylene Chloride          | 1.9243       | 1.4981       |         | 22.15        |      |
| Acetone                     | .2090        | .1826        |         | 12.60        |      |
| Carbon Disulfide            | 4.2969       | 3.3942       |         | 21.01        |      |
| 1,1-Dichloroethene          | 1.7245       | 1.4313       | 0.100   | 17.00        | 25.0 |
| 1,1-Dichloroethane          | 3.2262       |              | 0.200   | 18.00        | 25.0 |
| 1,2-Dichloroethene (total)  | 1.9501       |              |         | 12.60        |      |
| Chloroform                  | 3.5735       | 3.0333       | 0.200   | 15.12        | 25.0 |
| 1,2-Dichloroethane          | 1.7916       | 1.6136       | 0.100   | 9.94         | 25.0 |
| 2-Butanone                  | .0638        | .0774        |         | 21.41        |      |
| 1,1,1-Trichloroethane       | .6301        | .5329        | 0.100   | 15.43        | 25.0 |
| Carbon Tetrachloride        | .5581        | .5108        | 0.100   | 8.48         | 25.0 |
| Bromodichloromethane        | .5486        |              | 0.200   | 1.12         | 25.0 |
| 1,2-Dichloropropane         | .3395        | .3255        |         | 4.12         |      |
| cis-1,3-Dichloropropene     | .4624        | .4627        | 0.200   | .07          | 25.0 |
| Trichloroethene             | .4855        | .4752        | 0.300   |              | 25.0 |
| Dibromochloromethane        | .4628        | .5172        | 0.100   | 11.75        | 25.0 |
| 1,1,2-Trichloroethane       | .2589        |              | 0.100   | 12.83        | 25.0 |
| Benzene                     | .9642        | .9236        |         | 4.21         | 25.0 |
| trans-1,3-Dichloropropene   | .3516        | .3677        | 0.100   | 4.60         | 25.0 |
| Bromoform                   | .3017        | .3697        | 0.100   | 22.53        | 25.0 |
| 4-Methyl-2-pentanone        | .2324        | .2570        |         | 10.59        |      |
| 2-Hexanone                  | .1393        | .1597        |         | 14.60        |      |
| Tetrachloroethene           | .5947        | .5323        | 0.200   | 10.50        | 25.0 |
| 1,1,2,2-Tetrachloroethane   | .3665        | .3985        | 0.300   | 8.73         | 25.0 |
| Toluene                     | 1.5509       | 1.3584       | 0.400   | 12.41        | 25.0 |
| Chlorobenzene               | 1.1548       | 1.0569       | 0.500   | 8.47         | 25.0 |
| Ethylbenzene                | .6032        | .5839        | 0.100   | 3.20         | 25.0 |
| Styrene                     | 1.1227       | 1.0582       | 0.300   | 5.74         | 25.0 |
| Xylene (total)              | .7133        | .6309        | 0.300   | 11.54        | 4    |
|                             |              | 1            |         | =====        |      |
| Toluene-d8                  | 1.3897       | 1            |         | 12.48        |      |
| Bromofluorobenzene          | .7430        |              | 0.200   | 5.72         | 25.0 |
| 1,2-Dichloroethane-d4       | 1.4239       | 1.3105       |         | 7.96         |      |
| All other compounds must me | <br>et a min | <br>nimum RI | RF of ( | 0.010.       | l    |

All other compounds must meet a minimum RRF of 0.010.

# 7A VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ACCREDITED LABS, INC. Contract: _____

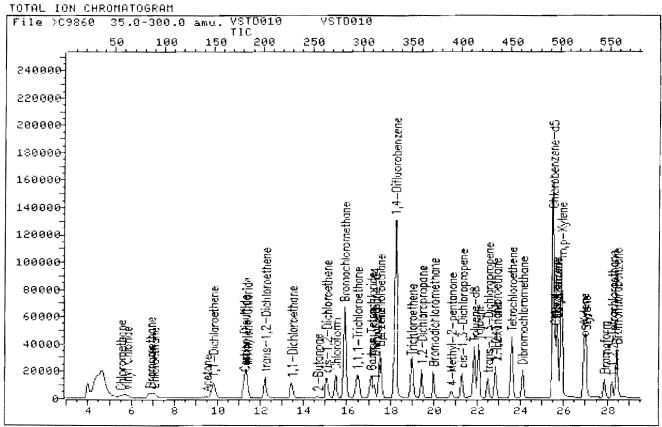
Instrument ID: HP5970C Calibration Date: 10/13/98 Time: 10:37

Heated Purge: (Y/N) N Init. Calib. Times: 12:39 15:02

GC Column: RTX-502 ID: 0.53 (mm)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |        | MIN   |        | MAX  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|--------|------|
| COMPOUND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RRF    | RRF50  | RRF   | %D     | %D   |
| Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro | _===== | =====  | 1     | _===== | ==== |
| Chloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | .3926  |       | 52.14  |      |
| Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | 1.3500 |       |        | 25.0 |
| Vinyl Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | 1.0524 | 0.100 |        | 25.0 |
| Chloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .9271  |        |       | 2.91   |      |
| Methylene Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.9243 |        |       | 17.86  |      |
| Acetone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | .2090  |        |       | 15.16  |      |
| Carbon Disulfide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4.2969 |        |       | 17.11  |      |
| 1,1-Dichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.7245 |        |       | 13.15  | 25.0 |
| 1,1-Dichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.2262 |        | 0.200 |        | 25.0 |
| 1,2-Dichloroethene (total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.9501 |        |       | 9.04   |      |
| Chloroform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.5735 | 3.1585 |       | 11.61  | 25.0 |
| 1,2-Dichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.7916 | 1.6894 | 0.100 | 5.70   | 25.0 |
| 2-Butanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | .0638  |        |       | 34.55  |      |
| 1,1,1-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .6301  | .5599  |       | 11.15  | 25.0 |
| Carbon Tetrachloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .5581  |        | 0.100 | 5.06   | 25.0 |
| Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .5486  |        | 0.200 | 4.44   | 25.0 |
| 1,2-Dichloropropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | .3395  |        |       | 2.48   |      |
| cis-1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | .4624  | .4807  |       | 3.97   | 25.0 |
| Trichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .4855  | .5033  | 0.300 | 3.67   | 25.0 |
| Dibromochloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .4628  |        | 0.100 |        | 25.0 |
| 1,1,2-Trichloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .2589  |        | 0.100 |        | 25.0 |
| Benzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | .9642  | .9506  | 0.500 | 1.41   | 25.0 |
| trans-1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .3516  | .3878  | 0.100 |        | 25.0 |
| Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .3017  | .4014  | 0.100 |        | 25.0 |
| 4-Methyl-2-pentanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | .2324  | .2910  |       | 25.20  |      |
| 2-Hexanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | .1393  | .1815  |       | 30.30  |      |
| Tetrachloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .5947  | .5635  | 0.200 |        | 25.0 |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | .3665  | .4331  |       |        | 25.0 |
| Toluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.5509 | 1.4283 |       | 7.90   | 25.0 |
| Chlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.1548 | 1.1004 |       | 4.71   | 25.0 |
| Ethylbenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .6032  | .5666  |       |        | 25.0 |
| Styrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.1227 |        |       | .81    | 25.0 |
| Xylene (total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .7133  | i i    | 0.300 | 6.94   | 25.0 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |        | ===== |        | ==== |
| Toluene-d8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.3897 | 1.2817 |       | 7.77   |      |
| Bromofluorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | .7430  | .7185  | 0.200 | 3.30   | 25.0 |
| 1,2-Dichloroethane-d4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.4239 | 1.3638 |       | 4.22   |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |        |       |        |      |

All other compounds must meet a minimum RRF of 0.010.



Data File: >C9860::C2 Name: VSTD010

VSTD010

Misc:

Id File: IDPA23::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Quant Output File: ^C9860::D2

Last Calibration: 980722 14:06

Operator ID: WILLIAM

Quant Time: 980825 15:14 Injected at: 980824 13:50

Quant Time: 980825 15:14 ^perator ID: WILLIAM Quant Rev: 6 utput File: ^C9860::D2 Injected at: 980824 13:50 Dilution Factor: 1.00000 Data File: >C9860::C2

Name: VSTD010 VSTD010

isc:

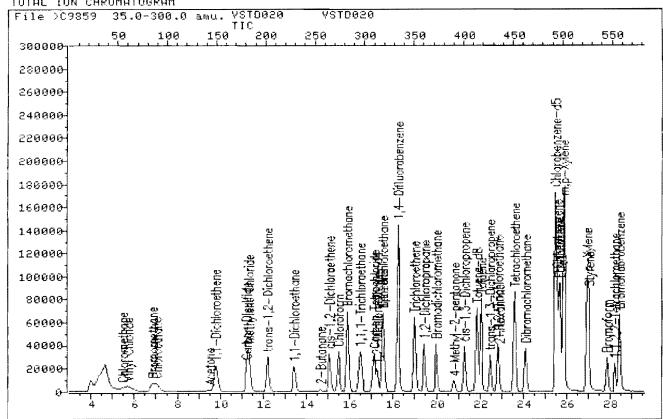
ID File: IDPA23::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

mast Calibration: 980722 14:06

|                 | Compound                           | R.T.  | Scan#      | Area           | Conc  | Units | <b>q</b>   |
|-----------------|------------------------------------|-------|------------|----------------|-------|-------|------------|
| <b>—</b> 1)     | *Bromochloromethane                | 15.87 | 283        | 81844          | 50.00 | ug/l  | 92         |
| 2)              | Chloromethane                      | 5.51  | 56         | 14052          |       | ug/l  | 89         |
| 3)              | Bromomethane                       | 6.88  | 86         | 22413          |       | ug/l  | 98         |
| <b>4</b> )      | Vinyl Chloride                     | 5.79  | 62         | 15448          | 10.22 | -     | 91         |
| 5)              | Chloroethane                       | 7.06  | 90         | 14798          |       | ug/l  | 95         |
| 6)              | Methylene Chloride                 | 11.35 | 184        | 40468          | 16.43 | ug/l  | 88         |
| 7)              | Acetone                            | 9.48  | 143        | 4482           | 10.96 | ug/l  | 93         |
| 8)              | Carbon Disulfide                   | 11.26 | 182        | 66798          | 10.24 | ug/l  | 97         |
| 9)              | l,l-Dichloroethene                 | 9.80  | 150        | 28107          | 11.41 | ug/l  | 96         |
| _ 0)            | l,l-Dichloroethane                 | 13.45 | 230        | 52382          | 11.15 | ug/l  | 88         |
| Tl)             | cis-1,2-Dichloroethene             | 15.05 | 265        | 31612          | 11.59 | ug/l  | 92         |
| 12)             | trans-1,2-Dichloroethene           | 12.22 | 203        | 31238          | 11.41 | ug/l  | 93         |
| 3)              | Chloroform                         | 15,46 | 274        | 57759          | 11.03 |       | 94         |
| <b>(</b> )      | l,2-Dichloroethane-d4              | 17.29 | 314        | 22931          |       | ug/l  | 85         |
| 15)             | l,2-Dichloroethane                 | 17.51 | 319        | 28505          | 8.92  |       | 95         |
| 6)              | ±1,4-Difluorobenzene               | 18.20 | 334        | 464403         | 50.00 | _     | 7 7        |
| 7)              | 2-Butanone                         | 14.64 | 256        | 5586           | 6.69  | _     | 98         |
| <del>1</del> 8) | l,l,l-Trichloroethane              | 16.47 | 296        | 56908          |       | ug/l  | 93         |
| 19)             | Carbon Tetrachloride               | 17.10 | 310        | 48054          | 8.64  | _     | 97         |
| _0)             | Bromodichloromethane               | 19.98 | 373        | 47419          | 8.67  | -     | 92         |
| <b>Z</b> l)     | l,2-Dichloropropane                | 19.43 | 361        | 30713          | 9.61  | _     | 97         |
| 22)             | cis-1,3-Dichloropropene            | 21.30 | 402        | 40154          | 9.06  | _     | 94         |
| 3)              | Trichloroethene                    | 18.98 | 351        | 44818 <b>M</b> |       | _     |            |
| <b>4</b> )      | Benzene                            | 17.51 | 319        | 90082          | 10.56 | _     | 100        |
| 25)             | Dibromochloromethane               | 24.09 | 463        | 38686          | 7.49  |       | 92         |
| ^6)             | l,l,2-Trichloroethane              | 22.85 | 436        | 23284          |       | ug/l  | 90         |
| 7)              | trans-1,3-Dichloropropene          | 22.49 | 428        | 29234          |       | ug/l  | 95         |
| 28)             | Bromoform                          | 27.88 | 546        | 23444M         |       | ug/l  | 0.4        |
| 29)             | *Chlorobenzene-d5                  | 25.46 | 493        | 354691         | 50.00 | _     | 8 4<br>7 8 |
| 0)              | 2-Hexanone                         | 22.85 | 436        | 8444           |       | ug/l  | 70         |
| 1)              | 4-Methyl-2-pentanone               | 20.80 | 391        | 15226M         | 6.58  | _     | 93         |
| 32)             | Tetrachloroethene                  | 23.59 | 452        | 42316<br>24051 | 10.10 |       | 89         |
| 3)              | 1,1,2,2-Tetrachloroethane          | 28.24 | 554<br>414 | 98828          | 10.71 | _     | 96         |
| 4)              | Toluene-d8                         | 22.03 | 418        | 109357         | 10.68 | -     | 97         |
| 35)             | Toluene                            | 25.59 | 496        | 81573          | 10.53 |       | 95         |
| ⁷ 6) | Chlorobenzene                      | 28.42 | 558        | 50415          | 9.58  |       | 77         |
| 7)<br>38)       | Bromofluorobenzene<br>Ethylbenzene | 25.68 | 498        | 44733M         | 11.19 |       | 67         |
| 38)<br>39)      | Styrene                            | 27.01 | 527        | 74469          |       | ug/l  | 84         |
| 39)<br>0)       | m,p-Xylene                         | 25.87 | 502        | 104679         | 22.13 | -     | 87         |
| <b>1</b> )      | m,p-xylene<br>o-Xylene             | 26.92 | 525        | 51356          | 10.86 | _     | 88         |
| <del></del> 1)  | O Ayrene                           | 20.72 | 323        | 0.000          |       | D     |            |

^{*} Compound is ISTD



Data File: >C9859::C2 Quant Output File: ^C9859::D2

Name: VSTD020

VSTD020

Misc:

Id File: IDPA23::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 980722 14:06

Operator ID: WILLIAM

980825 15:13 Quant Time: Injected at: 980824 13:15

 ^perator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 980825 15:13

 utput File: ^C9859::D2
 Injected at: 980824 13:15

 Data File: >C9859::C2
 Dilution Factor: 1.00000

Name: VSTD020 VSTD020

isc:

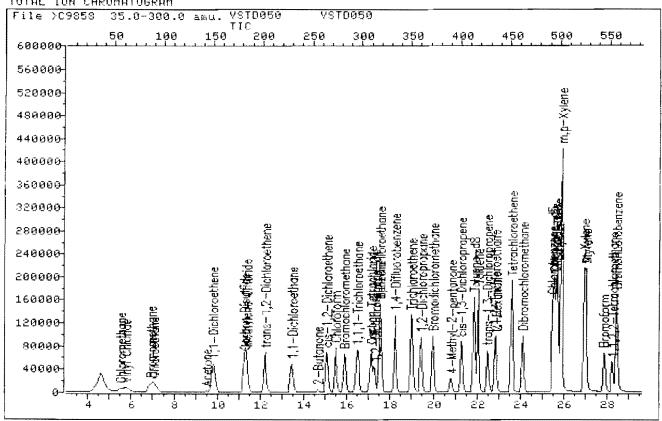
ID File: IDPA23::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

mast Calibration: 980722 14:06

|                   | Compound              | R.T.  | Scan# | Area           | Conc  | Units | p   |
|-------------------|-----------------------|-------|-------|----------------|-------|-------|-----|
| 1) *Brom          | ochloromethane        | 15.89 | 283   | 79705          | 50.00 | 110/1 | 97  |
| •                 | romethane             | 5.48  | 55    | 29167          | 16.61 |       | 88  |
| •                 | omethane              | 6.85  | 85    | 46907          | 18.86 |       | 98  |
|                   | l Chloride            | 5.71  | 60    | 30531          | 20.73 | _     | 94  |
| •                 | roethane              | 7.03  | 89    | 31398          | 18.30 | _     | 94  |
|                   | ylene Chloride        | 11.32 | 183   | 66403          | 27.69 | _     | 86  |
| 7) Acet           | •                     | 9.50  | 143   | 6953           | 17.45 | -     | 94  |
|                   | on Disulfide          | 11.23 | 181   | 142264         | 22.38 |       | 98  |
| •                 | Dichloroethene        | 9.77  | 149   | 58059          | 24.20 |       | 97  |
|                   | Dichloroethane        | 13.42 | 229   | 105836         | 23.12 | -     | 88  |
|                   | l,2-Dichloroethene    | 15.06 | 265   | 63762          | 24.00 | _     | 96  |
| •                 | s-1,2-Dichloroethene  | 12.19 | 202   | 65429          | 24.54 |       | 96  |
| •                 | roform                | 15.47 | 274   | 116978         | 22.93 | _     | 95  |
|                   | Dichloroethane-d4     | 17.26 | 313   | 45379          | 18.48 | _     | 79  |
| 15) 1,2-1         | Dichloroethane        | 17.53 | 319   | 56387          | 18.11 | ug/l  | 94  |
|                   | Difluorobenzene       | 18.21 | 334   | 465191         | 50.00 |       | 79  |
| -7) 2 – Bu        | tanone                | 14.65 | 256   | 11176          | 13.36 |       | 96  |
|                   | l-Trichloroethane     | 16.48 | 296   | 117415         | 19.33 | ug/l  | 93  |
| 19) Carb          | on Tetrachloride      | 17.12 | 310   | 102893         | 18.48 | ug/l  | 96  |
| 0) Brome          | odichloromethane      | 19.99 | 373   | 97660          | 17.83 | ug/l  | 93  |
| <b>7</b> 1) 1,2-1 | Dichloropropane       | 19.45 | 361   | 61996          | 19.36 | ug/l  | 96  |
| 22) cis-          | l,3-Dichloropropene   | 21.27 | 401   | 82041          | 18.48 | ug/l  | 94  |
| 3) Trick          | hloroethene           | 18.99 | 351   | 91632          | 21.09 | ug/l  | 86  |
| 🖦 4) Benz         | ene                   | 17.53 | 319   | 180910         | 21.16 | ug/l  | 100 |
| 25) Dibro         | omochloromethane      | 24.10 | 463   | 79855          | 15.44 | ug/l  | 90  |
| ^6) l,l,:         | 2-Trichloroethane     | 22.82 | 435   | 45825          | 16.99 | ug/l  | 90  |
| 7) tran:          | s-l,3-Dichloropropene | 22.46 | 427   | 60553          | 15.23 | ug/l  | 96  |
| 28) Brome         | oform                 | 27.85 | 545   | 49659 <b>M</b> |       |       |     |
| •                 | robenzene-d5          | 25.47 | 493   | 344576         | 50.00 |       | 90  |
|                   | xanone                | 22.87 | 436   | 18014          | 12.62 | _     | 79  |
| •                 | thyl-2-pentanone      | 20.82 | 391   | 31008M         |       |       |     |
| •                 | achloroethene         | 23.60 | 452   | 86573          | 21.27 |       | 97  |
| •                 | 2,2-Tetrachloroethane | 28.21 | 553   | 46966          | 14.79 |       | 92  |
| _ /               | e n e - d 8           | 21.87 | 414   | 196976         | 21.98 | _     | 96  |
| 35) Tolu          |                       | 22.05 | 418   | 222731         | 22.39 |       | 99  |
| - /               | robenzene             | 25.56 | 495   | 163124         | 21.67 |       | 95  |
|                   | ofluorobenzene        | 28.44 | 558   | 103574         | 20.25 |       | 92  |
|                   | lbenzene              | 25.65 | 497   | 84389M         |       |       | 64  |
| 39) Styr          |                       | 27.02 | 527   | 151934         | 20.09 |       | 85  |
| · -               | Xylene                | 25.84 | 501   | 216369         | 47.08 |       | 84  |
| ■1) o-Xy          | lene                  | 26.93 | 525   | 98806          | 21.50 | ug/l  | 92  |

 $[\]star$  Compound is ISTD



Data File: >C9858::C2 Name: VSTD050

VSTD050

Misc:

Id File: IDPA23::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Quant Output File: ^C9858::D2

Last Calibration: 980722 14:06

Operator ID: WILLIAM

Quant Time: 980825 15:12 Injected at: 980824 12:39

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 980825 15:12

 utput File: ^C9858::D2
 Injected at: 980824 12:39

 Data File: >C9858::C2
 Dilution Factor: 1.00000

Name: VSTD050 VSTD050

isc:

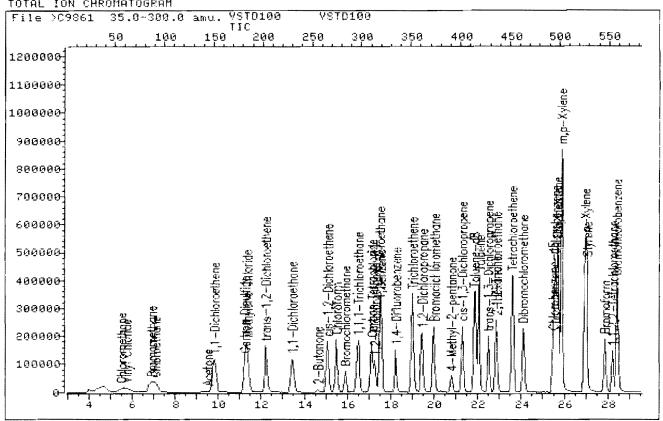
ID File: IDPA23::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

ast Calibration: 980722 14:06

|                  | Compound                  | R.T.  | Scan# | Area    | Conc   | Units | q   |
|------------------|---------------------------|-------|-------|---------|--------|-------|-----|
| $\mathbf{L}_1$ ) | *Bromochloromethane       | 15.88 | 283   | 79320   | 50.00  | ug/l  | 95  |
| 2)               | Chloromethane             | 5.52  | 56    | 61487   | 35.18  |       | 91  |
| 3)               | Bromomethane              | 6.94  | 8 7   | 102845  | 41.56  | ug/l  | 98  |
| <b>4</b> )       | Vinyl Chloride            | 5.75  | 61    | 65036   | 44.38  | ug/l  | 94  |
| 5)               | Chloroethane              | 7.07  | 90    | 69115   | 40.47  | ug/l  | 96  |
| 6)               | Methylene Chloride        | 11.36 | 184   | 130237  | 54.57  | ug/1  | 90  |
| 7)               | Acetone                   | 9.49  | 143   | 14617   | 36.87  | ug/l  | 97  |
| <b>-</b> 8)      | Carbon Disulfide          | 11.27 | 182   | 323431  | 51.14  | ug/l  | 98  |
| 9)               | l,l-Dichloroethene        | 9.81  | 150   | 126948  | 53.17  | ug/l  | 98  |
| 0)               | l,l-Dichloroethane        | 13.46 | 230   | 236088  | 51.83  | ug/l  | 88  |
| <b>T</b> 1)      | cis-l,2-Dichloroethene    | 15.06 | 265   | 144225  | 54.56  | ug/l  | 94  |
| 12)              | trans-1,2-Dichloroethene  | 12.23 | 203   | 144833  | 54.58  | ug/l  | 92  |
| 3)               | Chloroform                | 15.47 | 274   | 263200  | 51.85  |       | 95  |
| <b>4</b> )       | l,2-Dichloroethane-d4     | 17.30 | 314   | 104985  | 42.95  | ug/l  | 85  |
| 15)              | l,2-Dichloroethane        | 17.53 | 319   | 134039  | 43.26  | -     | 95  |
|                  | ±1,4-Difluorobenzene      | 18.21 | 334   | 440364  | 50.00  |       | 78  |
| 7)               | 2-Butanone                | 14.65 | 256   | 26883   | 33.96  | _     | 98  |
| 18)              | l,l,l-Trichloroethane     | 16.48 | 296   | 260306  | 45.27  | _     | 92  |
| 19)              | Carbon Tetrachloride      | 17.12 | 310   | 230203  | 43.67  | _     | 96  |
| 0)               | Bromodichloromethane      | 19.99 | 373   | 228561  | 44.08  | _     | 92  |
| <b>4</b> 1)      | l,2-Dichloropropane       | 19.44 | 361   | 139839  | 46.13  | _     | 96  |
| 22)              | cis-l,3-Dichloropropene   | 21.27 | 401   | 192306  | 45.75  | _     | 96  |
| 3)               | Trichloroethene           | 18.99 | 351   | 202064M | 49.12  |       |     |
| ¥4)              | Benzene                   | 17.53 | 319   | 398352  | 49.23  |       | 100 |
| 25)              | Dibromochloromethane      | 24.10 | 463   | 197810  | 40.40  | _     | 91  |
| ² 6)  | l,l,2-Trichloroethane     | 22.82 | 435   | 109196  | 42.76  | _     | 88  |
| 7)               | trans-1,3-Dichloropropene | 22.46 | 427   | 148553  | 39.47  |       | 95  |
| <b>7</b> 8)      | Bromoform                 | 27.84 | 545   | 130573  | 35.28  |       | 97  |
| 29)              | *Chlorobenzene-d5         | 25.47 | 493   | 332411  | 50.00  | -     | 88  |
| 0)               | 2-Hexanone                | 22.87 | 436   | 45197   | 32.83  |       | 8 2 |
| 1)               | 4-Methyl-2-pentanone      | 20.81 | 391   | 74680M  | 34.43  | -     |     |
| 32)              | Tetrachloroethene         | 23.60 | 452   | 187458  | 47.74  | _     | 95  |
| 3)               | l,l,2,2-Tetrachloroethane | 28.25 | 554   | 117889  | 38.48  | ***   | 89  |
| <b>4</b> )       | Toluene-d8                | 21.86 | 414   | 434004  | 50.21  |       | 95  |
| 35)              | Toluene                   | 22.05 | 418   | 487531  | 50.81  | ~     | 99  |
| 36)              | Chlorobenzene             | 25.56 | 495   | 365457  | 50.33  |       | 94  |
| 7)               | Bromofluorobenzene        | 28.44 | 558   | 235884  | 47.81  | -     | 91  |
| <b>3</b> 8)      | Ethylbenzene              | 25.70 | 498   | 183406M | 48.95  |       | 69  |
| 39)              | Styrene                   | 27.02 | 527   | 354986  | 48.66  | _     | 84  |
| 0)               | m,p-Xylene                | 25.88 | 502   | 478221  | 107.86 |       | 89  |
| <b>1</b> )       | o-Xylene                  | 26.93 | 525   | 224124  | 50.55  | ug/1  | 90  |

^{*} Compound is ISTD



Data File: >C9861::C2 VSTD100 Name: VSTD100

Quant Output File: ^C9861::D2

Misc:

Id File: IDPA23::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 980722 14:06

Operator ID: WILLIAM

Quant Time: 980825 15:15 Injected at: 980824 14:26

 ^perator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 980825 15:15

 utput File: ^C9861::D2
 Injected at: 980824 14:26

 Data File: >C9861::C2
 Dilution Factor: 1.00000

Name: VSTD100 VSTD100

isc:

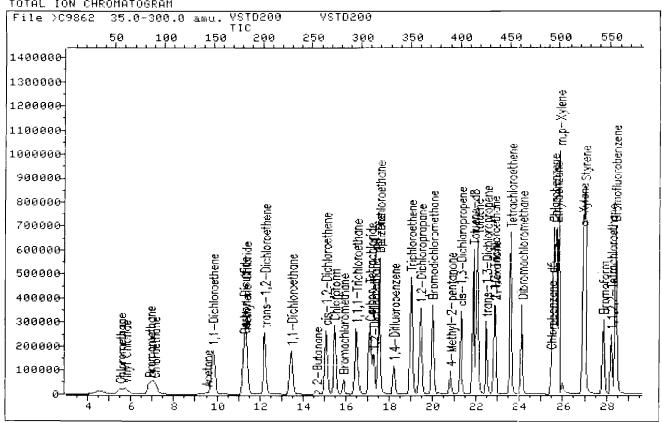
ID File: IDPA23::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

mast Calibration: 980722 14:06

|                 | Compound                  | R.T.  | Scan# | Area             | Conc   | Units | q<br> |
|-----------------|---------------------------|-------|-------|------------------|--------|-------|-------|
| • 1)            | *Bromochloromethane       | 15.90 | 284   | 82544            | 50.00  | ug/l  | 93    |
| 2)              | Chloromethane             | 5.50  | 56    | 137062           | 75.36  | ug/l  | 92    |
| 3)              | Bromomethane              | 6.91  | 8 7   | 248862           | 96.64  | ug/l  | 99    |
| <b>4</b> )      | Vinyl Chloride            | 5.73  | 61    | 146848           | 96.30  | ug/1  | 93    |
| 5)              | Chloroethane              | 7.09  | 91    | 164770           | 92.72  | ug/l  | 93    |
| 6)              | Methylene Chloride        | 11.34 | 184   | 291653           | 117.43 | ug/1  | 86    |
| 7)              | Acetone                   | 9.51  | 144   | 29202            | 70.78  | ug/l  | 95    |
| 8)              | Carbon Disulfide          | 11.25 | 182   | 775095           | 117.76 | ug/l  | 98    |
| 9)              | l,l-Dichloroethene        | 9.83  | 151   | 304978           | 122.75 | ug/1  | 96    |
| 0)              | l,l-Dichloroethane        | 13.44 | 230   | 575991           | 121.52 | ug/l  | 89    |
| $T_1$           | cis-1,2-Dichloroethene    | 15.08 | 266   | 344450           | 125.21 | ug/l  | 98    |
| 12)             | trans-1,2-Dichloroethene  | 12.21 | 203   | 346968           | 125.65 | ug/l  | 95    |
| 3)              | Chloroform                | 15.49 | 275   | 638261           | 120.82 | ug/l  | 95    |
| <b>194</b> )    | l,2-Dichloroethane-d4     | 17.27 | 314   | 250898           | 98.64  | ug/l  | 83    |
| 15)             | l,2-Dichloroethane        | 17.50 | 319   | 316836           | 98.26  | ug/l  | 95    |
| 6)              | ∴l,4-Difluorobenzene      | 18.23 | 335   | 471197           | 50.00  | ug/l  | 80    |
| _7 )            | 2-Butanone                | 14.62 | 256   | 60071            | 70.92  | ug/l  | 97    |
| 18)             | l,l,l-Trichloroethane     | 16.50 | 297   | 632764           | 102.84 | ug/l  | 93    |
| 19)             | Carbon Tetrachloride      | 17.13 | 311   | 577560           | 102.39 | ug/l  | 96    |
| 0)              | Bromodichloromethane      | 20.01 | 374   | 562957           | 101.46 | ug/l  | 92    |
| 71)             | l,2-Dichloropropane       | 19.46 | 362   | 341536           | 105.29 | ug/l  | 97    |
| 22)             | cis-1,3-Dichloropropene   | 21.29 | 402   | 471586           | 104.85 | ug/l  | 95    |
| 3)              | Trichloroethene           | 19.01 | 352   | 486408           | 110.50 | ug/l  | 88    |
| <b>4</b>        | Benzene                   | 17.55 | 320   | 963490           | 111.27 | ug/l  | 100   |
| 25)             | Dibromochloromethane      | 24.07 | 463   | 470293           | 89.77  | ug/l  | 95    |
| ^6)             | l,l,2-Trichloroethane     | 22.84 | 436   | 255902           | 93.66  | ug/l  | 90    |
| 7 )             | trans-1,3-Dichloropropene | 22.48 | 428   | 360352           | 89.47  | ug/l  | 94    |
| 28)             | Bromoform                 | 27.86 | 546   | 314304M          | 79.38  | ug/l  |       |
| 29)             | *Chlorobenzene-d5         | 25.49 | 494   | 359577           | 50.00  |       | 91    |
| 0)              | 2-Hexanone                | 22.84 | 436   | 105001           | 70.52  |       | 78    |
| <b>5</b> 1)     | 4-Methyl-2-pentanone      | 20.79 | 391   | 169915 <b>M</b>  | 72.41  | _     |       |
| 32)             | Tetrachloroethene         | 23.57 | 452   | 449630           | 105.85 |       | 89    |
| 3)              | l,l,2,2-Tetrachloroethane | 28.23 | 554   | 276176           | 83.33  | -     | 90    |
| <b>—</b> 4)     | Toluene-d8                | 21.84 | 414   | 1056605          | 113.00 | ~     | 95    |
| 35)             | Toluene                   | 22.07 | 419   | 1188735          | 114.53 | _     | 99    |
| ² 6) | Chlorobenzene             | 25.58 | 496   | 876626           | 111.61 |       | 95    |
| _7)             | Bromofluorobenzene        | 28.41 | 558   | 565825 <b>M</b>  | 106.01 | _     |       |
| 38)             | Ethylbenzene              | 25.67 | 498   | 462682           | 114.16 | -     | 96    |
| 39)             | Styrene                   | 27.04 | 528   | 885433           | 112.20 | _     | 8 5   |
| 0)              | m,p-Xylene                | 25.85 | 502   | 1122291 <b>M</b> | 234.01 | _     | 86    |
| <b>1</b> )      | o-Xylene                  | 26.95 | 526   | 541558           | 112.92 | ug/l  | 94    |

^{*} Compound is ISTD



Data File: >C9862::C2 Name: VSTD200

VSTD200

Misc:

Id File: IDPA23::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Quant Output File: ^C9862::D2

Last Calibration: 980722 14:06

Operator ID: WILLIAM

Quant Time: 980825 15:16 Injected at: 980824 15:02

 ^perator ID: WILLIAM
 Quant Rev: 6 Quant Time: 980825 15:16

 _itput File: ^C9862::D2
 Injected at: 980824 15:02

 Data File: >C9862::C2
 Dilution Factor: 1.00000

Name: VSTD200 VSTD200

isc:

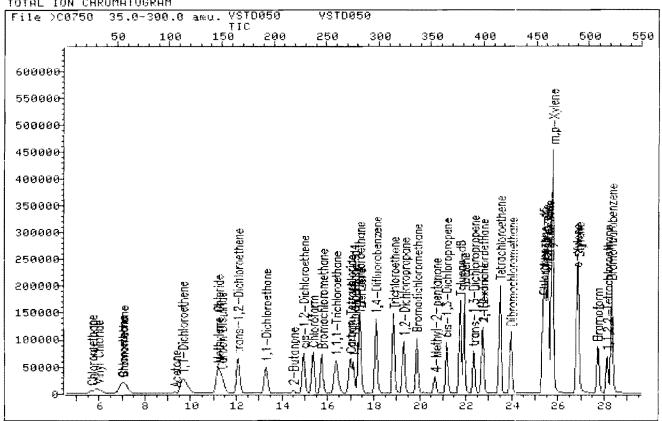
ID File: IDPA23::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

mast Calibration: 980722 14:06

|                    | Compound                  | R.T.  | Scan# | Area    | Conc   | Units | q<br> |
|--------------------|---------------------------|-------|-------|---------|--------|-------|-------|
| 1)                 | *Bromochloromethane       | 15.89 | 283   | 69433   | 50.00  | ug/1  | 97    |
| 2)                 | Chloromethane             | 5.52  | 56    | 200707  | 131.20 | -     | 92    |
| 3)                 | Bromomethane              | 6.89  | 86    | 365958  | 168.95 |       | 97    |
| <b>4</b> )         | Vinyl Chloride            | 5.75  | 61    | 204008  | 159.05 | ***   | 92    |
| 5)                 | Chloroethane              | 7.12  | 91    | 243651  | 163.00 | _     | 93    |
| 5)                 | Methylene Chloride        | 11.37 | 184   | 460461  | 220.40 | -     | 91    |
| <b>J</b> )         | Acetone                   | 9.54  | 144   | 53258   | 153.46 |       | 97    |
| 8)                 | Carbon Disulfide          | 11.28 | 182   | 1157828 | 209.12 |       | 97    |
| 9)                 | l,l-Dichloroethene        | 9.82  | 150   | 454492  | 217.47 | _     | 96    |
| )                  | l, l-Dichloroethane       | 13.47 | 230   | 873695  | 219.14 | _     | 88    |
| $\overline{\Pi}$ ) | cis-1,2-Dichloroethene    | 15.06 | 265   | 529491  | 228.81 | ug/l  | 96    |
| 12)                | trans-1,2-Dichloroethene  | 12.23 | 203   | 519355  | 223.58 | _     | 91    |
| 3)                 | Chloroform                | 15.47 | 274   | 967975  | 217.84 | ug/l  | 95    |
| <b>4</b> )         | l,2-Dichloroethane-d4     | 17.30 | 314   | 403192  | 188.45 | ug/l  | 89    |
| 15)                | 1,2-Dichloroethane        | 17.53 | 319   | 510754  | 188.31 | ug/l  | 94    |
| .5)                | *1,4-Difluorobenzene      | 18.21 | 334   | 373036  | 50.00  | ug/l  | 79    |
| _7)                | 2~Butanone                | 14.65 | 256   | 110283  | 164.45 | ug/l  | 94    |
| T8)                | l,l,l-Trichloroethane     | 16.48 | 296   | 961163  | 197.32 | ug/l  | 93    |
| 19)                | Carbon Tetrachloride      | 17.12 | 310   | 872200  | 195.31 | ug/l  | 96    |
| 3)                 | Bromodichloromethane      | 19.99 | 373   | 882260  | 200.86 | ug/l  | 93    |
| <b>2</b> 1)        | l,2-Dichloropropane       | 19.45 | 361   | 527455  | 205.39 | ug/l  | 97    |
| 22)                | cis-l,3-Dichloropropene   | 21.27 | 401   | 748293  | 210.15 | ug/l  | 95    |
| 3)                 | Trichloroethene           | 18.99 | 351   | 712353  | 204.42 | ug/l  | 85    |
| <b>1</b>           | Benzene                   | 17.53 | 319   | 1420462 | 207.21 |       | 100   |
| 25)                | Dibromochloromethane      | 24.10 | 463   | 776415  | 187.21 |       | 90    |
| ³⁵⁾     | l,l,2-Tríchloroethane     | 22.83 | 435   | 414949  | 191.84 |       | 89    |
| _7)                | trans-1,3-Dichloropropene | 22.46 | 427   | 593870  | 186.25 |       | 95    |
| <del>2</del> 8)    | Bromoform                 | 27.87 | 544   | 536027M | 170.99 |       |       |
|                    | *Chlorobenzene-d5         | 25.47 | 493   | 291887  | 50.00  |       | 89    |
| 0)                 | 2-Hexanone                | 22.87 | 436   | 192595  | 159.34 |       | 85    |
| 1)                 | 4-Methyl-2-pentanone      | 20.82 | 391   | 305443M | 160.36 |       |       |
| 32)                | Tetrachloroethene         | 23.60 | 452   | 653747  | 189.59 |       | 96    |
| 3)                 | 1,1,2,2-Tetrachloroethane | 28.24 | 552   | 483233  | 179.61 | _     | 90    |
| 4)                 | Toluene-d8                | 21.87 | 414   | 1577755 | 207.86 |       | 95    |
| 35)                | Toluene                   | 22.05 | 418   | 1724832 | 204.71 |       | 92    |
| ² 6)    | Chlorobenzene             | 25.57 | 495   | 1309925 | 205.44 |       | 94    |
| 7)                 | Bromofluorobenzene        | 28.42 | 556   | 882989  | 203.79 |       | 80    |
| 38)                | Ethylbenzene              | 25.70 | 498   | 674876  | 205.12 |       | 82    |
| 39)                | Styrene                   | 27.00 | 525   | 1356953 | 211.83 | _     | 83    |
| 0)                 | m,p-Xylene                | 25.84 | 501   | 882121M | 226.59 | _     | 98    |
| <b>1</b> )         | o-Xylene                  | 26.91 | 523   | 815244  | 209.41 | ug/I  | 86    |

^{*} Compound is ISTD



Data File: >C0750::C1 Quant Output File: ^C0750::D2

Name: VSTD050

VSTD050

Misc:

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981008 09:18

Operator ID: WILLIAM

Quant Time: 981012 14:10 Injected at: 981012 13:39

 perator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981012 14:10

 utput File: ^C0750::D2
 Injected at: 981012 13:39

 Data File: >C0750::C1
 Dilution Factor: 1.00000

Name: VSTD050 VSTD050

isc:

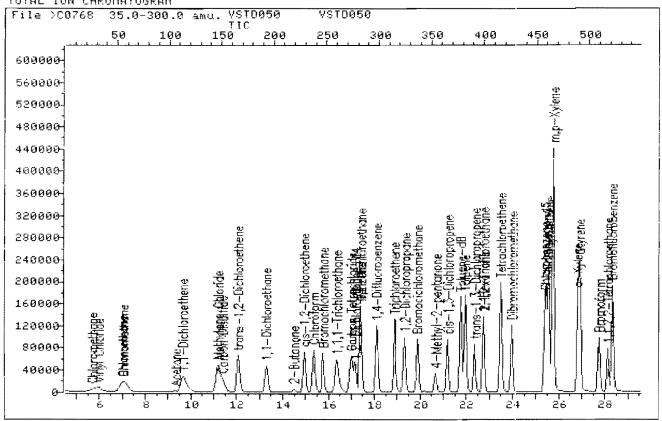
ID File: IDPA24::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

mast Calibration: 981008 09:18

|             | Compound                  | R.T.  | Scan# | Area    | Conc  | Units | q   |
|-------------|---------------------------|-------|-------|---------|-------|-------|-----|
| 1)          | *Bromochloromethane       | 15.77 | 247   | 89412   | 50.00 | ug/l  | 93  |
| 2)          | Chloromethane             | 5.69  | 26    | 65823   | 54.79 | ug/l  | 90  |
| 3)          | Bromomethane              | 7.06  | 56    | 121471  | 49.99 | ug/l  | 98  |
| <b>4</b> )  | Vinyl Chloride            | 5.96  | 3 2   | 90856   | 53.62 | ug/1  | 95  |
| 5)          | Chloroethane              | 7.01  | 55    | 83009   | 49.59 | ug/l  | 94  |
| 6)          | Methylene Chloride        | 11.21 | 147   | 133950  | 47.02 | ug/l  | 8 7 |
| 7)          | Acetone                   | 9.34  | 106   | 16330   | 42.71 | ug/l  | 90  |
| 8)          | Carbon Disulfide          | 11.34 | 150   | 303484  | 98.19 | ug/l  | 98  |
| 9)          | l,l-Dichloroethene        | 9.66  | 113   | 127973  | 47.50 | ug/l  | 96  |
| _0)         | l,l-Dichloroethane        | 13.30 | 193   | 236550  | 48.57 | ug/l  | 89  |
| <b>T</b> l) | cis-l,2-Dichloroethene    | 14.95 | 229   | 155068  | 48.91 | ug/l  | 95  |
| 12)         | trans-1,2-Dichloroethene  | 12.07 | 166   | 149703  | 48.22 | ug/l  | 97  |
| 3)          | Chloroform                | 15.36 | 238   | 271214  | 48.71 | ug/l  | 95  |
| 4)          | l,2-Dichloroethane-d4     | 17.13 | 277   | 117173  | 48.45 | ug/l  | 73  |
| 15)         | l,2-Dichloroethane        | 17.36 | 282   | 144271  | 48.08 | ug/l  | 96  |
| 6)          | *l,4-Difluorobenzene      | 18.09 | 298   | 455355  | 50.00 | ug/l  | 7 7 |
| _7)         | 2-Butanone                | 14.49 | 219   | 35262   | 44.51 | ug/l  | 97  |
| 18)         | l,l,l-Trichloroethane     | 16.36 | 260   | 242636  | 47.93 | ug/l  | 93  |
| 19)         | Carbon Tetrachloride      | 17.00 | 274   | 232593  | 48.19 | ug/l  | 96  |
| 0)          | Bromodichloromethane      | 19.87 | 337   | 247004  | 47.64 | ug/1  | 93  |
| 71)         | l,2-Dichloropropane       | 19.32 | 325   | 148213  | 47.51 | ug/l  | 97  |
| 22)         | cis-1,3-Dichloropropene   | 21.15 | 365   | 210684  | 49.42 | ug/l  | 94  |
| 3)          | Trichloroethene           | 18.87 | 315   | 216390M | 48.16 | ug/l  |     |
| <b>4</b> )  | Benzene                   | 17.41 | 283   | 420588  | 47.75 | ug/l  | 100 |
| 25)         | Dibromochloromethane      | 23.98 | 427   | 235514  | 47.43 | ug/l  | 93  |
| ~6)         | l,l,2-Trichloroethane     | 22.74 | 400   | 133018  | 46.74 | ug/l  | 92  |
| 7)          | trans-1,3-Dichloropropene | 22.33 | 391   | 167451  | 44.73 | ug/l  | 95  |
| 28)         | Bromoform                 | 27.72 | 509   | 168337  | 45.78 | ug/l  | 96  |
| 29)         | *Chlorobenzene-d5         | 25.34 | 457   | 378770  | 50.00 | ug/l  | 84  |
| .0)         | 2-Hexanone                | 22.74 | 400   | 60479   | 44.28 | ug/1  | 79  |
| <b>3</b> 1) | 4-Methyl-2-pentanone      | 20.69 | 355   | 97359M  | 45.04 | -     |     |
| 32)         | Tetrachloroethene         | 23.47 | 416   | 201613  | 48.30 | -     | 93  |
| 3)          | 1,1,2,2-Tetrachloroethane | 28.13 | 518   | 150930  | 44.74 | _     | 90  |
| <b>4</b> )  | Toluene-d8                | 21.74 | 378   | 460675  | 48.21 |       | 93  |
| 35)         | Toluene                   | 21.92 | 382   | 514517  | 48.05 | _     | 99  |
| 36)         | Chlorobenzene             | 25.44 | 459   | 400335  | 48.16 |       | 94  |
| _,7)        | Bromofluorobenzene        | 28.31 | 522   | 265327  | 48.84 |       | 84  |
| 38)         | Ethylbenzene              | 25.57 | 462   | 221164M | 49.31 |       | 68  |
| 39)         | Styrene                   | 26.90 | 491   | 400822  | 47.76 |       | 8 2 |
| +0)         | m,p-Xylene                | 25.76 | 466   | 477275  | 47.19 |       | 88  |
| 1)          | o-Xylene                  | 26.80 | 489   | 238982  | 47.99 | ug/l  | 89  |

^{*} Compound is ISTD



Data File: >C0768::C1 Name: VSTD050 VSTD050 Quant Output File: ^C0768::QT

Misc:

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

Quant Time: 981013 11:07 Injected at: 981013 10:37

 ^perator ID: WILLIAM
 Quant Rev: 6 Quant Time: 981013 11:07

 utput File: ^C0768::QT
 Injected at: 981013 10:37

 Data File: >C0768::Cl
 Dilution Factor: 1.00000

Name: VSTD050 VSTD050

isc:

ID File: IDPA24::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

mast Calibration: 981012 14:27

|                 | Compound                  | R.T.  | Scan# | Area    | Conc  | Units | q<br> |
|-----------------|---------------------------|-------|-------|---------|-------|-------|-------|
| <b>—</b> 1)     | *Bromochloromethane       | 15.76 | 247   | 82436   | 50.00 | ug/l  | 96    |
| 2)              | Chloromethane             | 5.68  | 26    | 32366   | 26.67 | ug/1  | 83    |
| 3)              | Bromomethane              | 7.05  | 56    | 111291  | 49.69 | ug/l  | 97    |
| <b>4</b> )      | Vinyl Chloride            | 5.96  | 3 2   | 86756   | 51.78 | ug/l  | 94    |
| 5)              | Chloroethane              | 7.01  | 55    | 78654   | 51.39 | ug/1  | 94    |
| 6)              | Methylene Chloride        | 11.20 | 147   | 130303  | 52.75 | ug/l  | 88    |
| 7)              | Acetone                   | 9.33  | 106   | 19838   | 65.88 | ug/1  | 96    |
| 8)              | Carbon Disulfide          | 11.38 | 151   | 293610  | 52.47 | ug/1  | 99    |
| 9)              | l,l-Dichloroethene        | 9.65  | 113   | 123470  | 52.32 | ug/1  | 97    |
| 0)              | l,l-Dichloroethane        | 13.30 | 193   | 227654  | 52.19 | ug/l  | 88    |
| 11)             | cis-1,2-Dichloroethene    | 14.94 | 229   | 148420  | 51.91 | ug/1  | 95    |
| 12)             | trans-1,2-Dichloroethene  | 12.07 | 166   | 144042  | 52.18 | ug/l  | 97    |
| 3)              | Chloroform                | 15.35 | 238   | 260372  | 52.06 | ug/l  | 96    |
| <b>4</b> )      | l,2-Dichloroethane-d4     | 17.18 | 278   | 112424  | 52.03 | ug/l  | 8 0   |
| 15)             | l,2-Dichloroethane        | 17.40 | 283   | 139271  | 52.35 | ug/l  | 96    |
| .6)             | *1,4-Difluorobenzene      | 18.09 | 298   | 424122  | 50.00 | ug/l  | 76    |
| _7)             | 2-Butanone                | 14.48 | 219   | 36398   | 55.41 | ug/l  | 97    |
| T8)             | l,l,l-Trichloroethane     | 16.35 | 260   | 237446  | 52.53 | ug/l  | 93    |
| 19)             | Carbon Tetrachloride      | 16.99 | 274   | 224718  | 51.86 | ug/1  | 96    |
| 0)              | Bromodichloromethane      | 19.87 | 337   | 243009  | 52.81 | ug/l  | 92    |
| <b>7</b> 1)     | l,2-Dichloropropane       | 19.32 | 325   | 147542  | 53.44 | ug/l  | 97    |
| 22)             | cis-1,3-Dichloropropene   | 21.19 | 366   | 203888  | 54.03 | ug/l  | 94    |
| 3)              | Trichloroethene           | 18.86 | 315   | 213449M | 52.95 | ug/l  |       |
| 4)              | Benzene                   | 17.40 | 283   | 403190  | 51.46 | ug/l  | 100   |
| 25)             | Dibromochloromethane      | 23.97 | 427   | 231280  | 52.72 | ug/l  | 97    |
| ^6)             | l,l,2-Trichloroethane     | 22.74 | 400   | 132322  | 53.40 | ug/l  | 90    |
| _7)             | trans-1,3-Dichloropropene | 22.38 | 392   | 164466  | 50.62 | ug/l  | 96    |
| 28)             | Bromoform                 | 27.76 | 510   | 170227  | 54.28 |       | 98    |
| 29)             | *Chlorobenzene-d5         | 25.39 | 458   | 352035  | 50.00 | ~     | 90    |
| 0)              | 2-Hexanone                | 22.74 | 400   | 63911   | 56.85 | -     | 80    |
| <b>9</b> 1)     | 4-Methyl-2-pentanone      | 20.69 | 355   | 102443M | 56.61 | _     |       |
| 32)             | Tetrachloroethene         | 23.47 | 416   | 198365  | 52.93 | _     | 89    |
| 3)              | 1,1,2,2-Tetrachloroethane | 28.12 | 518   | 152463  | 54.34 |       | 91    |
| 4)              | Toluene-d8                | 21.74 | 378   | 451200  | 52.69 | _     | 93    |
| 35)             | Toluene                   | 21.92 | 382   | 502825  | 52.57 | _     | 99    |
| ² 6) | Chlorobenzene             | 25.48 | 460   | 387374  | 52.06 |       | 95    |
| 7)              | Bromofluorobenzene        | 28.31 | 522   | 252932M | 51.28 |       |       |
| 38)             | Ethylbenzene              | 25.57 | 462   | 199464M | 48.52 | -     | 6.5   |
| 39)             | Styrene                   | 26.89 | 491   | 392022  | 52.62 | _     | 8 2   |
| 0)              | m,p-Xylene                | 25.75 | 466   | 482649  | 54.40 |       | 8 5   |
| <b>1</b> )      | o-Xylene                  | 26.80 | 489   | 233677  | 52.60 | ug/l  | 8 7   |

^{*} Compound is ISTD

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: ACCREDITED LABS, INC. Contract: _____

Lab File ID: >C9857 BFB Injection Date: 08/24/98

Instrument ID: HP5970BC BFB Injection Time: 12:18

GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

| m/e                                              | ION ABUNDANCE CRITERIA                                                                                                                                                                                                              | % RELATIVE ABUNDANCE                                                                             |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 50<br>75<br>95<br>96<br>173<br>174<br>175<br>176 | 8.0 - 40.0% of mass 95 30.0 - 66.0% of mass 95 Base peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 50.0 - 120.0% of mass 95 4.0 - 9.0% of mass 174 93.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176 | 15.1<br>43.8<br>100.<br>6.7<br>0.0( 0.0 )1<br>82.1<br>6.0( 7.2 )1<br>80.4( 97.9)1<br>5.3( 6.6 )2 |
| 1                                                | 1-Value is % mass 174 2-Value is % mass 174                                                                                                                                                                                         | ss 176                                                                                           |

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|                                                                                        | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----------------------------------------------------------------------------------------|-------------------|------------------|----------------|------------------|------------------|
| 01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>09<br>10<br>11<br>12<br>13<br>14<br>15 |                   | 1                |                |                  |                  |
| 19<br>20<br>21<br>22                                                                   |                   |                  |                |                  |                  |

page 1 of 1

#### 5A VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

| Lab | Name: | ACCREDITED | LABS, | INC. | Contract: |  |
|-----|-------|------------|-------|------|-----------|--|
|     |       |            | •     |      |           |  |

Lab Code: 11109 Case No.: SAS No.: SDG No.:

Lab File ID: >C0749 BFB Injection Date: 10/12/98

Instrument ID: HP5970BC BFB Injection Time: 13:20

GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

| m/e                                                     | ION ABUNDANCE CRITERIA                                                                                                                                                                                                              | % RELATIVE<br>ABUNDANCE                                                                          |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 50<br>75<br>95<br>96<br>173<br>174<br>175<br>176<br>177 | 8.0 - 40.0% of mass 95 30.0 - 66.0% of mass 95 Base peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 50.0 - 120.0% of mass 95 4.0 - 9.0% of mass 174 93.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176 | 15.2<br>43.7<br>100.<br>7.2<br>0.0( 0.0 )1<br>91.2<br>6.9( 7.6 )1<br>89.2( 97.7)1<br>5.9( 6.6 )2 |
| i I                                                     | 1-Value is % mass 174 2-Value is % mass 174                                                                                                                                                                                         | ss 176                                                                                           |

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|                                                                                                                            | EPA<br>SAMPLE NO.                                                                               | LAB<br>SAMPLE ID                                                                                | LAB<br>FILE ID                                                                 | DATE<br>ANALYZED                                                                                    | TIME<br>ANALYZED                                                      |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>09<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | SAMPLE NO.  VSTD050 VBLKC83 HBLK02 W1 92-93 W1 72-73 W1 62-63 72-73MS 72-73MSD BLANKMS BLANKMSD | SAMPLE ID  VSTD050 VBLKC83 HBLK02 9810777 9810778 9810779 9810778MS 9810778MSD BLANKMS BLANKMSD | FILE ID  >C0750 >C0752 >C0755 >C0755 >C0756 >C0757 >C0758 >C0759 >C0760 >C0761 | ANALYZED   10/12/98  10/12/98  10/12/98  10/12/98  10/12/98  10/12/98  10/12/98  10/12/98  10/12/98 | ANALYZED  13:39 15:22 16:01 17:20 17:59 18:38 19:17 19:57 20:35 21:15 |
| 22                                                                                                                         |                                                                                                 |                                                                                                 |                                                                                |                                                                                                     |                                                                       |

page 1 of 1

#### 5A VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

Lab Name: ACCREDITED LABS, INC. Contract: _____

Lab File ID: >C0767 BFB Injection Date: 10/13/98

Instrument ID: HP5970BC BFB Injection Time: 10:18

GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE<br>ABUNDANCE |  |
|-----|------------------------------------|-------------------------|--|
| 50  | 8.0 - 40.0% of mass 95             | 16.0                    |  |
| 75  | 30.0 - 66.0% of mass 95            | 44.3                    |  |
| 95  | Base peak, 100% relative abundance | 100.                    |  |
| 96  | 5.0 - 9.0% of mass 95              | 7.0                     |  |
| 173 | Less than 2.0% of mass 174         | 0.0(0.0)1               |  |
| 174 | 50.0 - 120.0% of mass 95           | 94.1                    |  |
| 175 | 4.0 - 9.0% of mass 174             | 6.8(7.2)1               |  |
| 176 | 93.0 - 101.0% of mass 174          | 92.0(97.8)1             |  |
| 177 | 5.0 - 9.0% of mass 176             | 6.1(6.6)2               |  |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|                      | EPA<br>SAMPLE NO.              | LAB<br>SAMPLE ID                | LAB<br>FILE ID             | DATE<br>ANALYZED                 | TIME<br>ANALYZED        |
|----------------------|--------------------------------|---------------------------------|----------------------------|----------------------------------|-------------------------|
| 01<br>02<br>03<br>04 | VSTD050<br>VBLKC84<br>W19293DL | VSTD050<br>VBLKC84<br>9810777DL | >C0768<br>>C0769<br>>C0771 | 10/13/98<br>10/13/98<br>10/13/98 | 10:37<br>11:32<br>13:07 |
| 05<br>06<br>07<br>08 |                                |                                 |                            |                                  |                         |
| 09<br>10<br>11<br>12 |                                |                                 |                            |                                  |                         |
| 13<br>14<br>15<br>16 |                                |                                 |                            |                                  |                         |
| 17<br>18<br>19       |                                |                                 |                            |                                  |                         |
| 20<br>21<br>22       |                                |                                 |                            |                                  |                         |

page 1 of 1

|                                                             |              | VBLKC83                                         |     |
|-------------------------------------------------------------|--------------|-------------------------------------------------|-----|
| Lab Name: ACCREDITED LABS, INC. Contract:                   |              | VDD1(000                                        |     |
| Lab Code: 11109 Case No.: SAS No.:                          | SDG No       | .:                                              |     |
| Matrix: (soil/water) WATER Lab                              | Sample ID: V | BLKC83                                          |     |
| Sample wt/vol: 5.0 (g/mL) ML Lab                            | File ID: >0  | C0752                                           |     |
| Level: (low/med) LOW Date                                   | Received: 10 | 0/12/98                                         |     |
| % Moisture: not dec Date                                    | Analyzed: 10 | 0/12/98                                         |     |
| GC Column: RTX-502 ID: 0.53 (mm) Dilu                       | tion Factor: | 1.0                                             |     |
| Soil Extract Volume:(uL) Soil                               | Aliquot Volu | ıme:                                            | (uL |
| CONCENTRAT                                                  | ION UNITS:   |                                                 |     |
| CAS NO. COMPOUND (ug/L or ue                                |              | Q                                               |     |
| 74-87-3Chloromethane                                        | 1            | LO U                                            |     |
| 74-83-9Bromomethane                                         | <b>_ i</b>   | LOU                                             |     |
| 75-01-4Vinyl Chloride                                       | i            | LO U                                            |     |
| 75-00-3Chloroethane                                         | _  1         | LO U                                            |     |
| 75-09-2Methylene Chloride                                   | _  _         | $\begin{bmatrix} 2 & J \\ \hline \end{bmatrix}$ |     |
| 67-64-1Acetone<br>75-15-0Carbon Disulfide                   | I            |                                                 |     |
| 75-35-41,1-Dichloroethene                                   | I            |                                                 |     |
| 75-34-31,1-Dichloroethane                                   | _ !          | 0 -0-                                           |     |
| 540-59-01,2-Dichloroethene (total)                          |              | LO  U                                           |     |
| 67-66-3Chloroform                                           |              | LO U                                            |     |
| 107-06-21,2-Dichloroethane                                  | <u>- '</u>   |                                                 |     |
| 78-93-32-Butanone                                           | I            | 0 _ U                                           |     |
| 71-55-61,1,1-Trichloroethane<br>56-23-5Carbon Tetrachloride |              |                                                 |     |
| 75-27-4Bromodichloromethane                                 | <b>_</b> {   | 0 0                                             |     |
| 78-87-51,2-Dichloropropane                                  |              | 0 -0-                                           |     |
| 10061-01-5cis-1,3-Dichloropropene                           |              | 0 -0                                            |     |
| 79-01-6Trichloroethene                                      | t            | 0 0                                             |     |
| 124-48-1Dibromochloromethane                                | _            | LO   U                                          |     |
| 79-00-51,1,2-Trichloroethane                                |              | LO U                                            |     |
| 71-43-2Benzene                                              | · ·          | 0 0                                             |     |
| 10061-02-6trans-1,3-Dichloropropene<br>75-25-2Bromoform     |              |                                                 |     |
| 108-10-14-Methyl-2-Pentanone                                |              |                                                 |     |
| 591-78-62-Hexanone                                          | 1            |                                                 |     |
| 127-18-4Tetrachloroethene                                   | _            |                                                 |     |
| 79-34-51,1,2,2-Tetrachloroethane                            | I            | lo UU                                           |     |
| 108-88-3Toluene                                             | _            | LOU                                             |     |
| 108-90-7Chlorobenzene                                       |              | 0 U                                             |     |
| 100-41-4Ethylbenzene                                        |              | 0 <u>U</u>                                      |     |
| 100-42-5Styrene                                             | I            | 0   U                                           |     |
| 1330-20-7Xylene (total)                                     | _  _         | 00                                              |     |

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

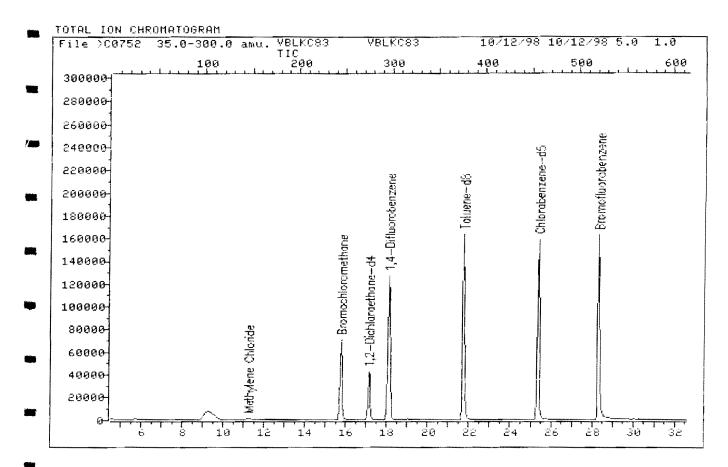
| EPA S | SAI | $\mathtt{MPL}$ | E | $N \cap$ |
|-------|-----|----------------|---|----------|
|-------|-----|----------------|---|----------|

| Lab Name: ACCREDITED | LABS, INC.    | Contract:            | VBLKC83   |
|----------------------|---------------|----------------------|-----------|
| Lab Code: 11109      | Case No.:     | SAS No.: SDG No      | o.: -     |
| Matrix: (soil/water) | WATER         | Lab Sample ID: V     | VBLKC83   |
| Sample wt/vol:       | 5.0 (g/mL) M  | L Lab File ID:       | C0752     |
| Level: (low/med)     | LOW           | Date Received: 3     | 10/12/98  |
| % Moisture: not dec. |               | Date Analyzed: 1     | 10/12/98  |
| GC Column: RTX-502   | ID: 0.53 (mm) | Dilution Factor:     | : 1.0     |
| Soil Extract Volume: | (uL)          | Soil Aliquot Vol     | lume:(uL) |
|                      |               | CONCENTRATION UNITS: |           |

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER COMPOUND NAME RT EST. CONC.

| CAS NUMBER | COMPOUND NAME       | RT   | EST. CONC. | Q<br>==== |
|------------|---------------------|------|------------|-----------|
| 1.         | Unknown Hydrocarbon | 9.24 | 25         | N N       |
| 2.         |                     |      |            |           |
| 3.         |                     |      |            |           |
| 4          |                     |      |            |           |
| 5.         |                     |      |            |           |
| 6          |                     |      |            |           |
| 7          |                     |      |            | l         |
| 8.<br>9.   |                     |      |            |           |
| 9.<br>LO.  |                     |      |            | l ———     |
| L1.        |                     |      |            |           |
|            |                     |      |            | ļ — — -   |
|            |                     |      |            |           |
| l3.<br>L4. |                     |      |            |           |
| 15.        |                     |      |            |           |
| 16.        |                     |      |            |           |
| 17.        |                     |      |            |           |
|            |                     |      |            |           |
| 18         |                     |      |            |           |
| 20.        |                     |      |            |           |
| 21         |                     |      |            |           |
| 22.        |                     |      |            |           |
| 23.        |                     |      |            |           |
| 24.        |                     |      |            |           |
| 25.        |                     |      |            |           |
| 26         |                     |      |            |           |
| 27.        |                     |      |            |           |
| 28.        |                     |      |            |           |
| 29.        |                     |      |            |           |
| 30.        |                     |      |            |           |
|            |                     |      |            |           |



Data File: >C0752::Cl Quant Output File: ^C0752::D2

Name: VBLKC83 VBLKC83

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

Quant Time: 981012 15:56 Injected at: 981012 15:22

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981012 15:56

 Output File: ^C0752::D2
 Injected at: 981012 15:22

 Data File: >C0752::C1
 Dilution Factor: 1.00000

Name: VBLKC83 VBLKC83

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0

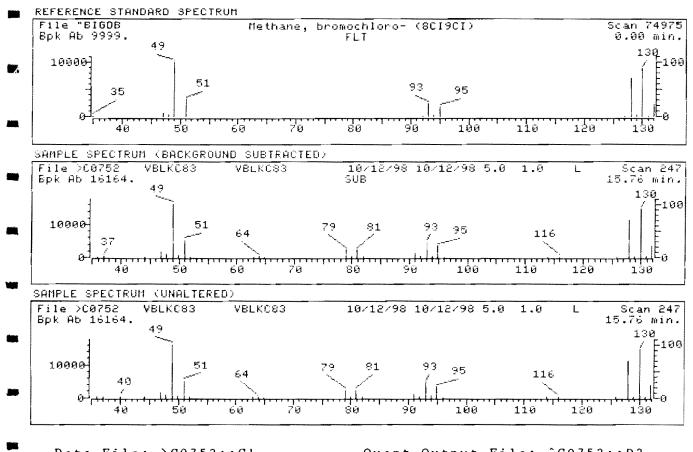
ID File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

|     | Compound                                               | R.T.           | Scan#      | Area          | Conc  | Units | q        |
|-----|--------------------------------------------------------|----------------|------------|---------------|-------|-------|----------|
| 1.  |                                                        | 15 76          | 2 / 7      | 0/020         |       |       |          |
| 6)  | <pre>   *Bromochloromethane   Methylene Chloride</pre> | 15.76<br>11.25 | 247<br>148 | 84820<br>6151 | 50.00 | _     | 96<br>88 |
| ,   | 1,2-Dichloroethane-d4                                  | 17.13          | 277        | 111092        | 49.97 | _     | 71       |
| •   | ★1,4-Difluorobenzene                                   | 18.08          | 298        | 440444        | 50.00 | _     | 76       |
| 29) | *Chlorobenzene-d5                                      | 25.38          | 458        | 366614        | 50.00 | ug/l  | 90       |
| 34) | Toluene-d8                                             | 21.73          | 378        | 428825        | 48.09 | ug/l  | 93       |
| 37) | Bromofluorobenzene                                     | 28.30          | 522        | 230093M       | 44.80 | ug/l  |          |

^{*} Compound is ISTD



Data File: >C0752::Cl Quant Output File: ^C0752::D2

Name: VBLKC83 VBLKC83

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 15:56 Quant ID File: IDPA24::SC Injected at: 981012 15:22 Last Calibration: 981012 14:27

Compound No: 1 (ISTD)

Compound Name: Bromochloromethane

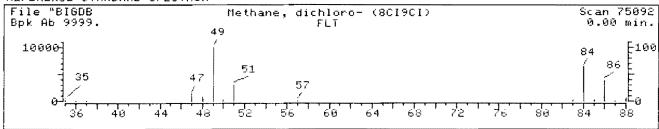
Scan Number: 247

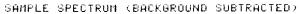
Retention Time: 15.76 min.

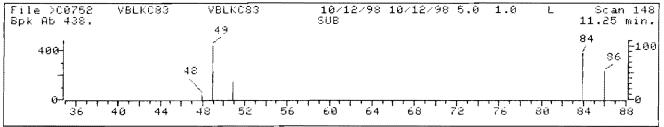
Quant Ion: 128.0 Area: 84820

Concentration: 50.00 ug/l

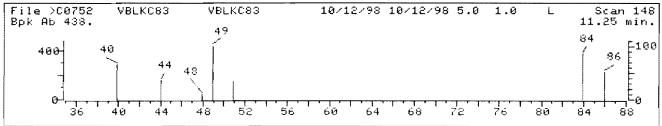
#### REFERENCE STANDARD SPECTRUM







SAMPLE SPECTRUM (UNALTERED)



Data File: >C0752::Cl Quant Output File: ^C0752::D2

Name: VBLKC83 VBLKC83

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 15:56 Quant ID File: IDPA24::SC Injected at: 981012 15:22 Last Calibration: 981012 14:27

Compound No: 6

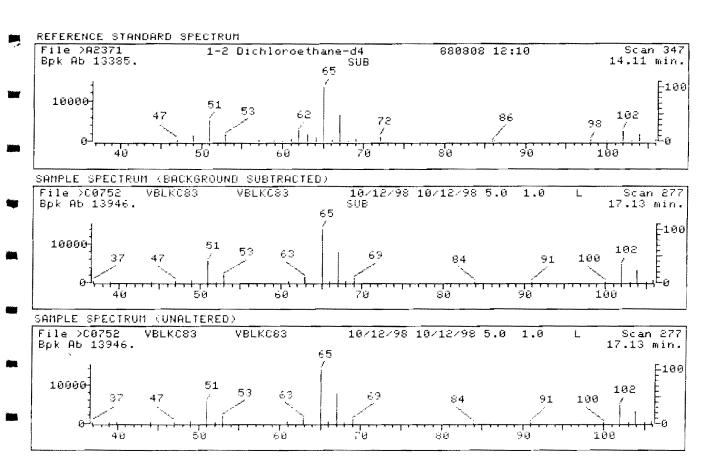
Compound Name: Methylene Chloride

Scan Number: 148

Retention Time: 11.25 min.

Quant Ion: 84.0 Area: 6151

Concentration: 2.42 ug/l



Data File: >C0752::Cl Quant Output File: ^C0752::D2

Name: VBLKC83 VBLKC83

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 15:56 Quant ID File: IDPA24::SC Injected at: 981012 15:22 Last Calibration: 981012 14:27

Compound No: 14

Compound Name: 1,2-Dichloroethane-d4

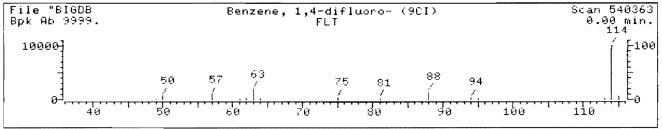
Scan Number: 277

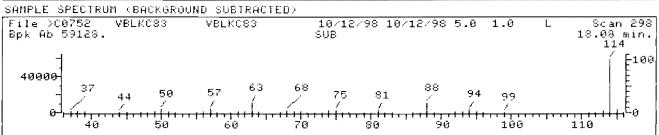
Retention Time: 17.13 min.

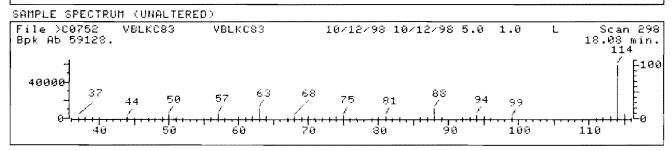
Quant Ion: 65.0 Area: 111092

Concentration: 49.97 ug/l

#### REFERENCE STANDARD SPECTRUM







Data File: >C0752::Cl Quant Output File: ^C0752::D2

Name: VBLKC83 VBLKC83

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 15:56 Quant ID File: IDPA24::SC Injected at: 981012 15:22 Last Calibration: 981012 14:27

Compound No: 16 (ISTD)

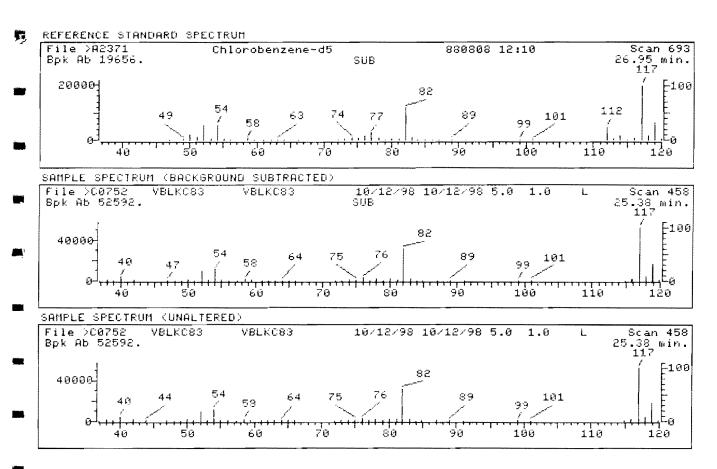
Compound Name: 1,4-Difluorobenzene

Scan Number: 298

Retention Time: 18.08 min.

Quant Ion: 114.0 Area: 440444

Concentration: 50.00 ug/1



Data File: >C0752::Cl Quant Output File: ^C0752::D2

Name: VBLKC83 VBLKC83

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 15:56 Quant ID File: IDPA24::SC Injected at: 981012 15:22 Last Calibration: 981012 14:27

Compound No: 29 (ISTD)

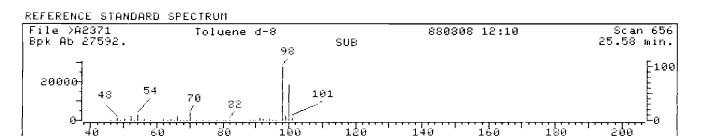
Compound Name: Chlorobenzene-d5

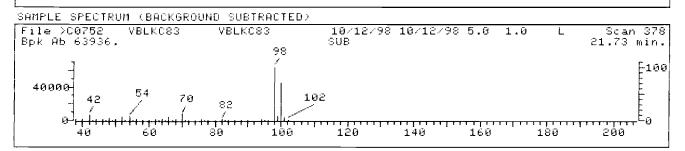
Scan Number: 458

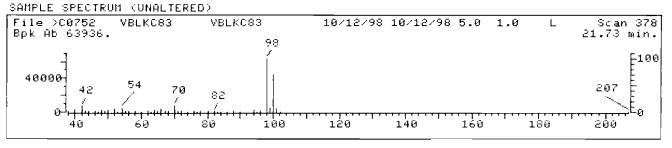
Retention Time: 25.38 min.

Quant Ion: 117.0 Area: 366614

Concentration: 50.00 ug/l







Data File: >C0752::Cl Quant Output File: ^C0752::D2

Name: VBLKC83 VBLKC83

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 15:56 Quant ID File: IDPA24::SC Injected at: 981012 15:22 Last Calibration: 981012 14:27

Compound No: 34

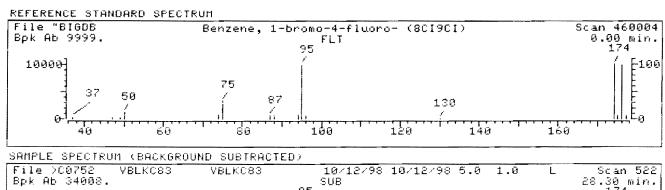
Compound Name: Toluene-d8

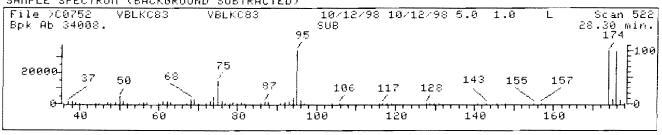
Scan Number: 378

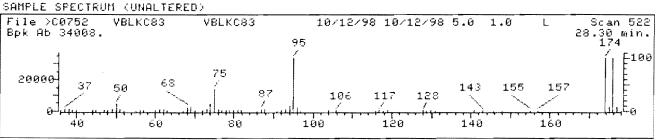
Retention Time: 21.73 min.

Quant Ion: 98.0 Area: 428825

Concentration: 48.09 ug/l







Name: VBLKC83 VBLKC83

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 15:56 Quant ID File: IDPA24::SC Injected at: 981012 15:22 Last Calibration: 981012 14:27

Compound No: 37

Compound Name: Bromofluorobenzene

Scan Number: 522

Retention Time: 28.30 min.

Quant Ion: 95.0 Area: 230093M

Concentration: 44.80 ug/l

Sample: VBLKC83 VBLKC83 Operator: WILLIAM REG. GRP. 10/12/98 15:22

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0

Sys. #: 1 MS model: 70 SW/HW rev.: IA ALS #: 0

Method file: ME624C Tuning file: MT7002 No. of extra records: 2 Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures: 30. 200. 0. 0. 0. Chromatographic times, min.: 8.0 1.2 0.0 0.0 Chromatographic rate, deg/min: 6.0 0.0 0.0 .1 0.0

>C0752 VBLKC83 VBLKC83 10/12/98 10/12/98 5.0 1.0 L

35.0| 300.0 CLP ADC TIC

Upslope: .20 Area Reject: 52210. Max Peaks: 1 Bunching: 1 Dnslope: 0.00 Results File IC0752 Sorted by Area/Area INT

Peak R.T. first % of max last peak raw corr. corr. # min. scan scan scan height area area % max. total was the sea and the the the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the te _____ ----_____ 9.24 93 104 125 7613 262835 261347 100.00 100.000

Sum of corrected areas: 261347.
Summary of Unknowns PBM Library Search and Quantitation

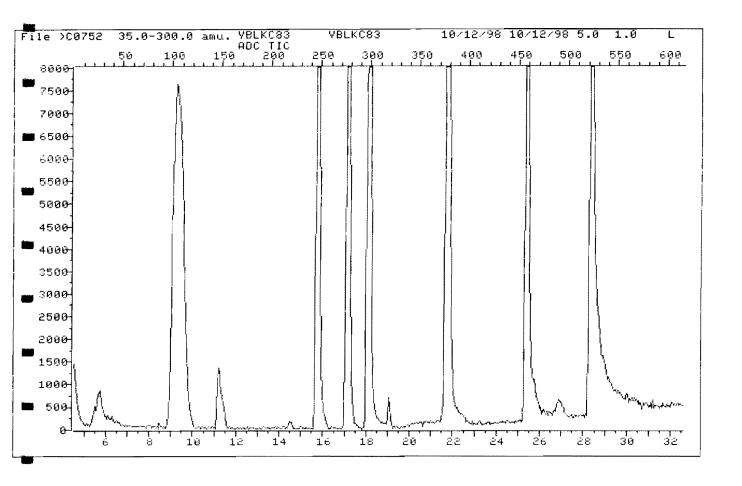
| Standard | Concentration | Area     | Retention<br>Time | Unknown<br>Window |       |
|----------|---------------|----------|-------------------|-------------------|-------|
|          |               |          |                   |                   |       |
| 1        | 50.0          | 522105.  | 15.76             | 4.54 ~ 1          | 6.92  |
| 2        | 50.0          | 955071.  | 18.08             | 16.92 - 2         | 1.73  |
| 3        | 50.0          | 1039553. | 25.38             | 21.73 - 3         | 32.59 |

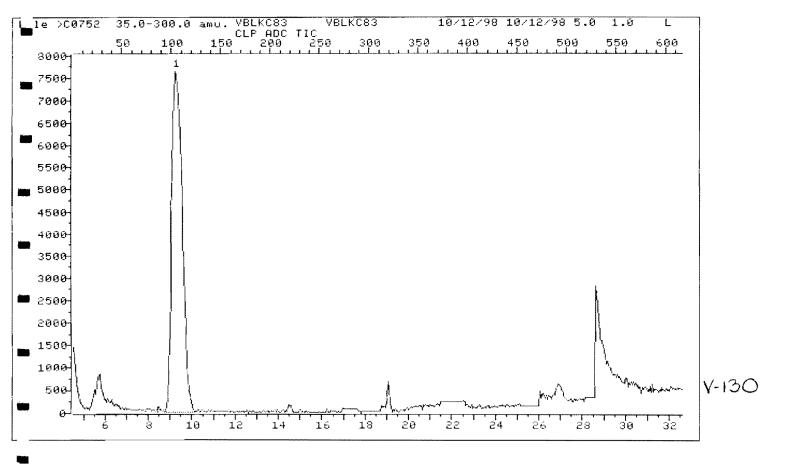
Rec Dil Factor (RDF) = 1.0000 Fractional Solids (FS) = 1.00 Dilution Factor (DF) = 1.00 Percent Solids (PS) = 0.00

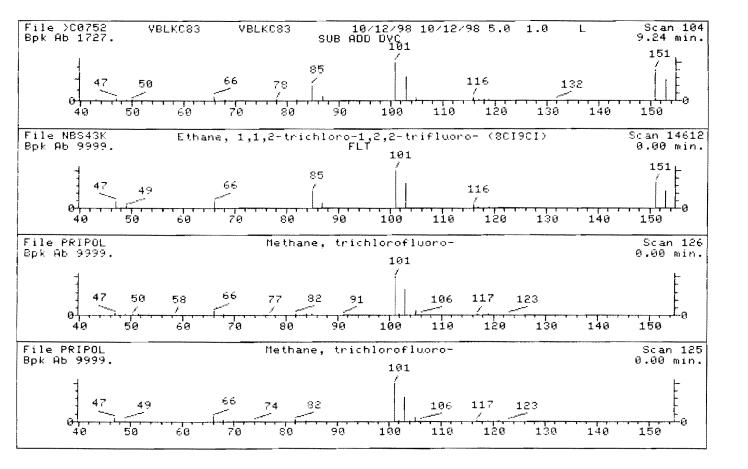
Correction Factor = 1.00 = 1 / (RDF * FS)

Conc Int Std
Unknown Concentration = ------ * Area Unk * Correction Factor
Area Int Std

11:13 PM WED., 14 OCT., 1998







. UNKNOWN #,1

AREA = 261347.0 TENTATIVE CONCENTRATION IS 25.00

Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (8CI9CI)
 Methane, trichlorofluoro Methane, trichlorofluoro Methane, trichlorofluoro- (8CI9CI)
 Methane, trichlorofluoro Methane, trichlorofluoro Methane, trichlorofluoro-

Sample file: >C0752 Spectrum #: 104
Search speed: 1 Tilting option: N No. of ion ranges searched: 42

CON # ROOT Κ DK #FLG TILT 2 CON C_I R_IV Prob. CAS # l. 78 76131 9515 NBS43K 71 67 3 0 90 3 55 12

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

|                                |               |                                           | VBLKC84  |
|--------------------------------|---------------|-------------------------------------------|----------|
| Lab Name: ACCREDITED           | LABS, INC.    | Contract:                                 |          |
| <br>Lab Code: 11109 C          | Case No.:     | SAS No.: SDG No                           | ·:       |
| Matrix: (soil/water)           | WATER         | Lab Sample ID: V                          | BLKC84   |
| Sample wt/vol: 5               | 6.0 (g/mL) ML | Lab File ID: >                            | C0769    |
| Level: (low/med) L             | LOW           | Date Received: 1                          | .0/13/98 |
| <pre>% Moisture: not dec</pre> |               | Date Analyzed: 1                          | 0/13/98  |
| GC Column: RTX-502             | ID: 0.53 (mm) | Dilution Factor:                          | 1.0      |
| Soil Extract Volume:           | (uL)          | Soil Aliquot Vol                          | ume:(uL) |
| CAS NO.                        | COMPOUND      | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q        |

| 74-87-3Chloromethane                | 10 | U                         |
|-------------------------------------|----|---------------------------|
| 74-83-9Bromomethane                 |    | U                         |
| 75-01-4Vinyl Chloride               |    | U                         |
| 75-00-3Chloroethane                 |    |                           |
| 75-09-2Methylene Chloride           | 15 |                           |
| 67-64-1Acetone                      |    | J                         |
| 75-15-0Carbon Disulfide             |    | <del> </del> <del>U</del> |
| 75-35-41,1-Dichloroethene           | 10 | U                         |
| 75-34-31,1-Dichloroethane           |    | U                         |
| 540-59-01,2-Dichloroethene (total)  | 10 | U                         |
| 67-66-3Chloroform                   | 10 |                           |
| 107-06-21,2-Dichloroethane          | 10 | U                         |
| 78-93-32-Butanone                   |    | U                         |
| 71-55-61,1,1-Trichloroethane        |    | U                         |
| 56-23-5Carbon Tetrachloride         |    | U                         |
| 75-27-4Bromodichloromethane         | 10 | U                         |
| 78-87-51,2-Dichloropropane          | 10 |                           |
| 10061-01-5cis-1,3-Dichloropropene   |    |                           |
| 79-01-6Trichloroethene              |    | U                         |
| 124-48-1Dibromochloromethane        | 10 | U                         |
| 79-00-51,1,2-Trichloroethane        | 10 | U                         |
| 71-43-2Benzene                      | 10 | U                         |
| 10061-02-6trans-1,3-Dichloropropene | 10 | U                         |
| 75-25-2Bromoform                    | 10 | U                         |
| 108-10-14-Methyl-2-Pentanone_       | 10 | U                         |
| 591-78-62-Hexanone                  | 10 | U                         |
| 127-18-4Tetrachloroethene           |    | U                         |
| 79-34-51,1,2,2-Tetrachloroethane    | 10 | U                         |
| 108-88-3Toluene                     | 10 | U                         |
| 108-90-7Chlorobenzene               | 10 | U                         |
| 100-41-4Ethylbenzene                | 10 | U                         |
| 100-42-5Styrene                     | 10 | U                         |
| 1330-20-7Xylene (total)             | 10 | U                         |
|                                     |    |                           |
|                                     |    |                           |

OLMO3.

## 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

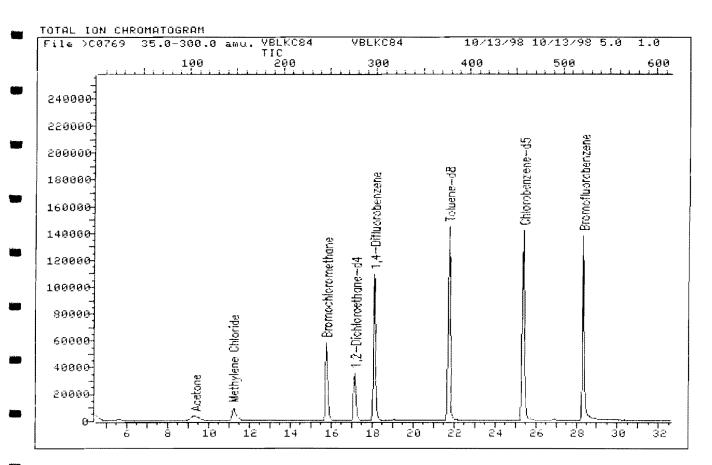
| ı |         | ı |
|---|---------|---|
|   | VBLKC84 |   |

EPA SAMPLE N .

| Lab Name: ACCREDITED LABS, INC.  | Contract:                                 |
|----------------------------------|-------------------------------------------|
| Lab Code: 11109 Case No.:        | SAS No.: SDG No.:                         |
| Matrix: (soil/water) WATER       | Lab Sample ID: VBLKC84                    |
| Sample wt/vol: 5.0 (g/mL) Mi     | L Lab File ID: >C0769                     |
| Level: (low/med) LOW             | Date Received: 10/13/98                   |
| % Moisture: not dec              | Date Analyzed: 10/13/98                   |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0                      |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL)                  |
| Number TICs found: 0             | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L |

| CAS NUMBER     | COMPOUND NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RT        | EST. CONC.                              | Q    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------|------|
|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ========= |                                         | ==== |
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| 3.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| 4.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| 5.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | *************************************** |      |
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| 7              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| 8.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| 9.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
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| L. I           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| 2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
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| <del>1</del> • |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| 5.             | 111111 - 127 · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                         |      |
| 6. l           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| <i>i</i> •     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
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| J.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| 1.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
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| <b>*</b> •     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| D.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| 6.             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
| 7. l           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                         |      |
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FORM I VOA-TIC



Data File: >C0769::Cl Quant Output File: ^C0769::QT

Name: VBLKC84 VBLKC84

Misc: 10/13/98 10/13/98 5.0 1.0 L 7.0

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981013 11:26

Operator ID: WILLIAM

Quant Time: 981013 12:05 Injected at: 981013 11:32

## QUANT REPORT

Operator ID: WILLIAM Quant Rev: 6 Quant Time: 981013 12:05 Output File: ^C0769::QT Injected at: 981013 11:32 Data File: 1.00000

Dilution Factor: >C0769::C1

Name: VBLKC84 VBLKC84

7.0 Misc: 10/13/98 10/13/98 5.0 1.0 L

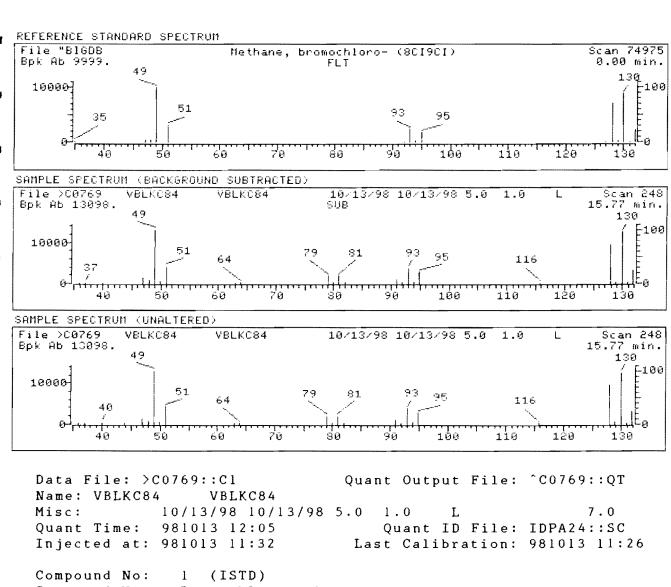
ID File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981013 11:26

|     | Compound                        | R.T.  | Scan# | Area            | Conc  | Units | q  |  |
|-----|---------------------------------|-------|-------|-----------------|-------|-------|----|--|
|     |                                 |       |       |                 |       |       |    |  |
| 1)  | *Bromochloromethane             | 15.77 | 248   | 72251           | 50.00 | ug/1  | 98 |  |
| 6)  | Methylene Chloride              | 11.21 | 148   | 35339           | 15.47 | ug/l  | 88 |  |
| 7)  | Acetone                         | 9.39  | 108   | 1556            | 4.47  | ug/1  | 85 |  |
| 14) | l,2-Dichloroethane-d4           | 17.19 | 279   | 92640           | 47.01 | ug/l  | 79 |  |
| 16) | <pre>*1,4-Difluorobenzene</pre> | 18.10 | 299   | 400968          | 50.00 | ug/l  | 76 |  |
| 29) | *Chlorobenzene-d5               | 25.40 | 459   | 333866          | 50.00 | ug/l  | 90 |  |
| 34) | Toluene-d8                      | 21.75 | 379   | 388595          | 45.41 | ug/l  | 93 |  |
| 37) | Bromofluorobenzene              | 28.31 | 523   | 208885 <b>M</b> | 43.54 | ug/l  |    |  |

^{*} Compound is ISTD



Compound Name: Bromochloromethane

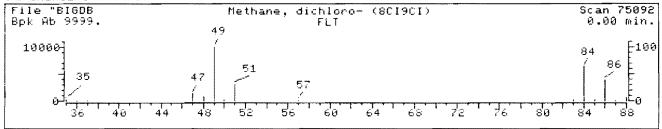
Scan Number: 248

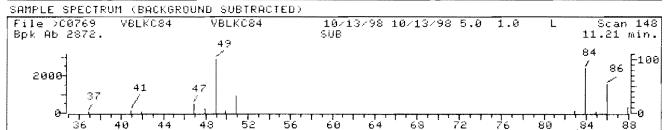
Retention Time: 15.77 min.

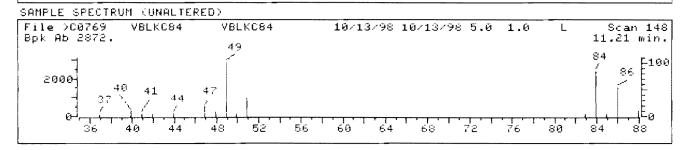
Quant Ion: 128.0 Area: 72251

Concentration: 50.00 ug/1

#### REFERENCE STANDARD SPECTRUM







Data File: >C0769::Cl Quant Output File: ^C0769::QT

Name: VBLKC84 VBLKC84

Misc: 10/13/98 10/13/98 5.0 1.0 L 7.0 Quant Time: 981013 12:05 Quant ID File: IDPA24::SC Injected at: 981013 11:32 Last Calibration: 981013 11:26

Compound No: 6

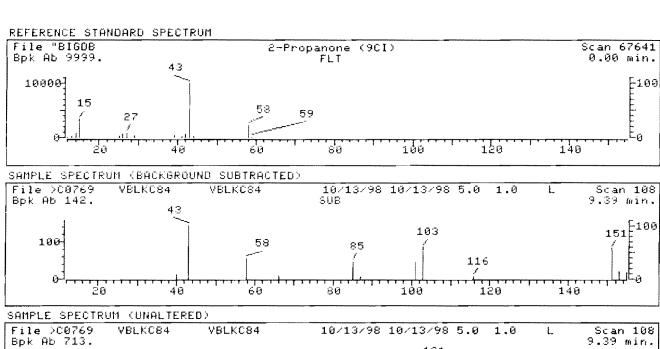
Compound Name: Methylene Chloride

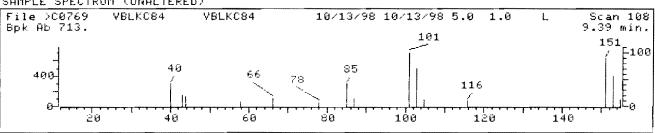
Scan Number: 148

Retention Time: 11.21 min.

Quant Ion: 84.0 Area: 35339

Concentration: 15.47 ug/l





Data File: >C0769::Cl Quant Output File: ^C0769::QT

Name: VBLKC84 VBLKC84

Misc: 10/13/98 10/13/98 5.0 1.0 L 7.0 Quant Time: 981013 12:05 Quant ID File: IDPA24::SC Injected at: 981013 11:32 Last Calibration: 981013 11:26

Compound No: 7

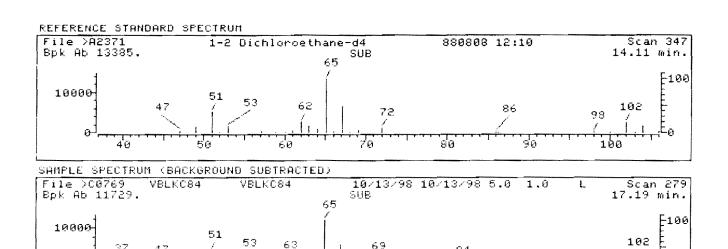
Compound Name: Acetone

Scan Number: 108

Retention Time: 9.39 min.

Quant Ion: 43.0 Area: 1556

Concentration: 4.47 ug/1



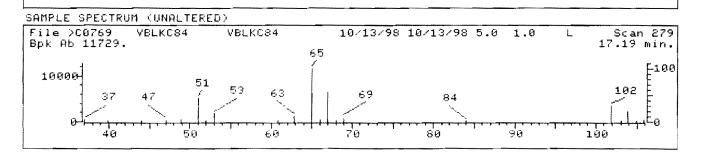
69

84

90

100

80



Quant Output File: ^C0769::QT Data File: >C0769::C1

VBLKC84 Name: VBLKC84

Misc: 10/13/98 10/13/98 5.0 L 1.0 7.0 Quant Time: 981013 12:05 Quant ID File: IDPA24::SC Injected at: 981013 11:32 Last Calibration: 981013 11:26

Compound No: 14

37

40

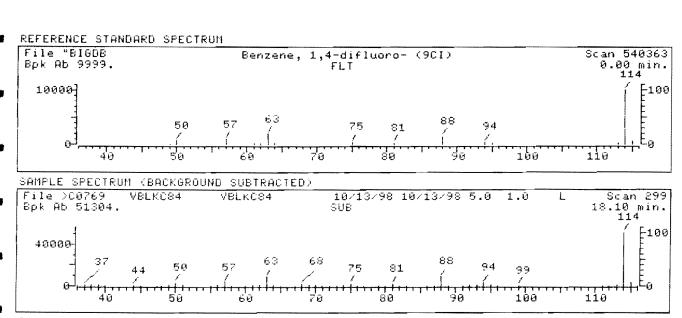
Compound Name: 1,2-Dichloroethane-d4

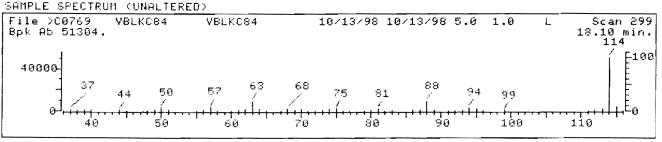
Scan Number: 279

Retention Time: 17.19 min.

Quant Ion: 65.0 92640 Area:

Concentration: 47.01 ug/1





Data File: >C0769::C1 Quant Output File: ^C0769::QT

Name: VBLKC84 VBLKC84

Misc: 10/13/98 10/13/98 5.0 1.0 L 7.0 Quant Time: 981013 12:05 Quant ID File: IDPA24::SC Injected at: 981013 11:32 Last Calibration: 981013 11:26

Compound No: 16 (ISTD)

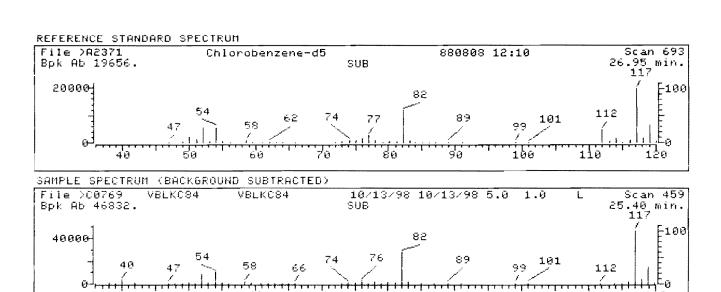
Compound Name: 1,4-Difluorobenzene

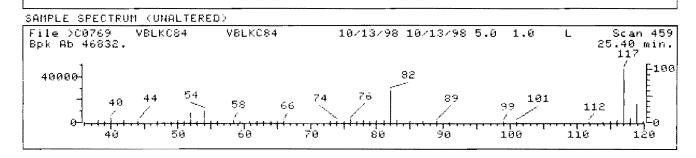
Scan Number: 299

Retention Time: 18.10 min.

Quant Ion: 114.0 Area: 400968

Concentration: 50.00 ug/l





80

<del>111</del> 90

100

120

110

70

60

Data File: >C0769::Cl Quant Output File: ^C0769::QT

Name: VBLKC84 VBLKC84

5ย

10/13/98 10/13/98 5.0 Misc: 1.0 7.0 L Quant Time: 981013 12:05 Quant ID File: IDPA24::SC Injected at: 981013 11:32 Last Calibration: 981013 11:26

Compound No: 29 (ISTD)

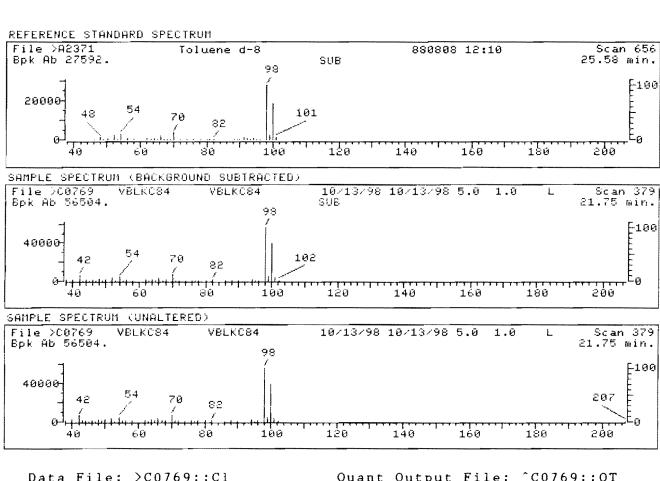
Compound Name: Chlorobenzene-d5

Scan Number: 459

Retention Time: 25.40 min.

Quant Ion: 117.0 333866 Area:

50.00 ug/1 Concentration:



Data File: >C0769::Cl Quant Output File: ^C0769::QT

Name: VBLKC84 VBLKC84

Misc: 10/13/98 10/13/98 5.0 1.0 L 7.0

Quant Time: 981013 12:05 Quant ID File: IDPA24::SC Last Calibration: 981013 11:26 Injected at: 981013 11:32

Compound No: 34

Compound Name: Toluene-d8

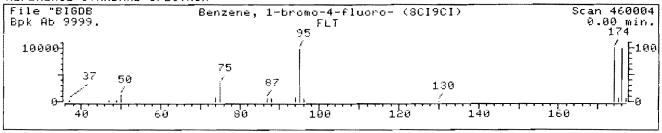
Scan Number: 379

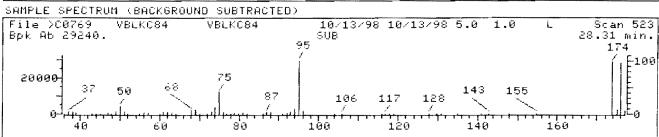
Retention Time: 21.75 min.

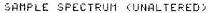
Quant Ion: 98.0 Area: 388595

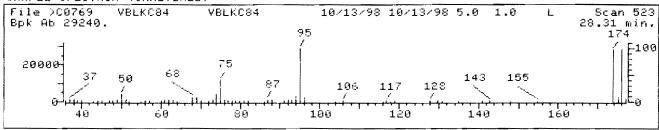
Concentration: 45.41 ug/1











Data File: >C0769::Cl Quant Output File: ^C0769::QT

Name: VBLKC84 VBLKC84

Misc: 10/13/98 10/13/98 5.0 1.0 L 7.0 Quant Time: 981013 12:05 Quant ID File: IDPA24::SC Injected at: 981013 11:32 Last Calibration: 981013 11:26

Compound No: 37

Compound Name: Bromofluorobenzene

Scan Number: 523

Retention Time: 28.31 min.

Quant Ion: 95.0 Area: 208885M

Concentration: 43.54 ug/1

M data file header from : >C0769

Sample: VBLKC84 VBLKC84 Operator: WILLIAM REG. GRP. 10/13/98 11:32

M'sc : 10/13/98 10/13/98 5.0 1.0 L 7.0

S_s. #: | MS model: 70 SW/HW rev.: IA ALS # : 0

Method file: ME624C Tuning file: MT7002 No. of extra records: 2 Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures: 30. 200. 0. 0. 0. Chromatographic times, min.: 8.0 1.2 0.0 0.0 0.0 Chromatographic rate, deg/min: 6.0 0.0 0.0 1.0 0.0

*To peaks found.

Summary of Unknowns PBM Library Search and Quantitation

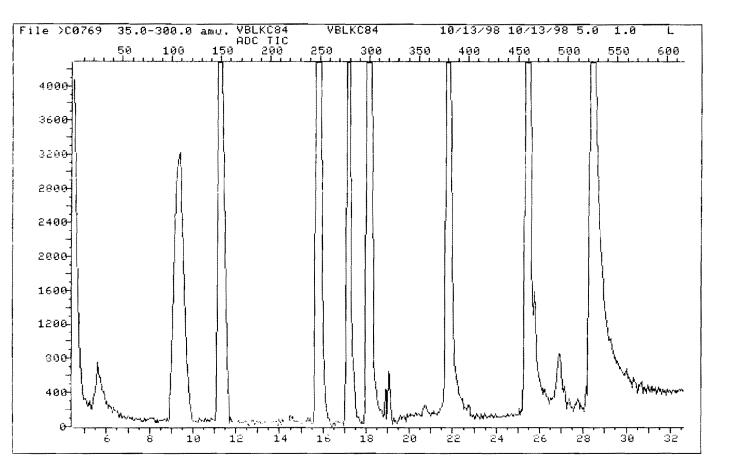
| - | Standard     | Concentratio | n Area     | Retention<br>Time | Unknov<br>Windo |       |
|---|--------------|--------------|------------|-------------------|-----------------|-------|
|   | 1            | 50.0         | 446706.    | 15.77             | 4.51 -          | 16.94 |
|   | 2            | 50.0         | 861855.    | 18.10             | 16.94 -         | 21.75 |
|   | 3            | 50.0         | 953778.    | 25.40             | 21.75 -         | 32.60 |
|   | Rec Dil Fact | tor (RDF) =  | 1.0000 Fra | actional Soli     | ds (FS) =       | 1.00  |

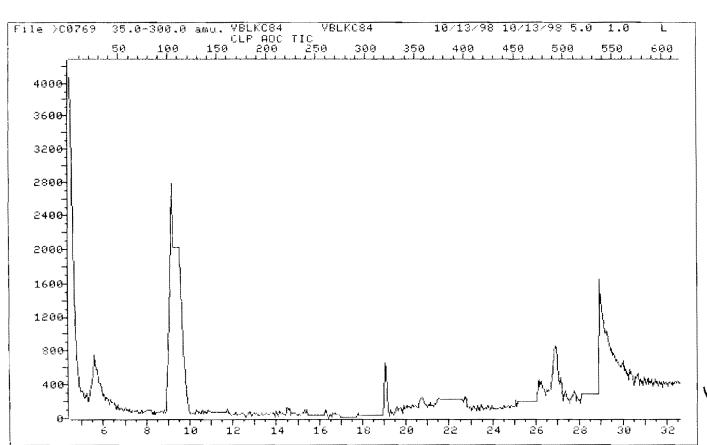
Rec Dil Factor (RDF) = 1.0000 Fractional Solids (FS) = 1.00 Dilution Factor (DF) = 1.00 Percent Solids (PS) = 0.00

Correction Factor = 1.00 = 1 / (RDF * FS)

Conc Int Std
Unknown Concentration = ----- * Area Unk * Correction Factor
Area Int Std

11:22 PM WED., 14 OCT., 1998





V-145

working... draw complete... working...
draw complete...
. THERE WERE NO UNKNOWNS

## 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N .

| HBLK02 |  |
|--------|--|
|        |  |

| Lab | Name: | ACCREDITE | LABS, INC. | Contract: |     | HBLK02 |     |
|-----|-------|-----------|------------|-----------|-----|--------|-----|
| Lab | Code: | 11109     | Case No.:  | SAS No.:  | SDG | No.:   | ئيب |

Matrix: (soil/water) WATER Lab Sample ID: HBLK02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >C0753

Level: (low/med) LOW Date Received: 10/12/98

% Moisture: not dec. Date Analyzed: 10/12/98

GC Column: RTX-502 Dilution Factor: 1.0 ID: 0.53 (mm)

Soil Extract Volume: ____(uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

COMPOUND CAS NO. (ug/L or ug/Kg) UG/L

| 74-87-3Chloromethane                | 10 U   |
|-------------------------------------|--------|
| 74-83-9Bromomethane                 | 10 U   |
| 75-01-4Vinyl Chloride               | 10   U |
| 75-00-3Chloroethane                 | 10   0 |
| 75-09-2Methylene Chloride           | 10   U |
| 67-64-1Acetone                      | 13     |
| 75-15-0Carbon Disulfide             | 10 T   |
| 75-35-41,1-Dichloroethene           | 10 0   |
| 75-34-31,1-Dichloroethane           | 10 0   |
| 540-59-01,2-Dichloroethene (total)  | 10 U   |
| 67-66-3Chloroform                   | 10 0   |
| 107-06-21,2-Dichloroethane          | 10 0   |
| 78-93-32-Butanone                   | 10 U   |
| 71-55-61,1,1-Trichloroethane        | 10 U   |
| 56-23-5Carbon Tetrachloride         | 10 T   |
| 75-27-4Bromodichloromethane         | 10     |
| 78-87-51,2-Dichloropropane          | 10 U   |
| 10061-01-5cis-1,3-Dichloropropene   | 10     |
| 79-01-6Trichloroethene              | 10   0 |
| 124-48-1Dibromochloromethane        | 10   0 |
| 79-00-51,1,2-Trichloroethane        | 10 0   |
| 71-43-2Benzene                      | 10 0   |
| 10061-02-6trans-1,3-Dichloropropene | 10 U   |
| 75-25-2Bromoform                    | 10U    |
| 108-10-14-Methyl-2-Pentanone        | 10 UU  |
| 591-78-62-Hexanone                  | 10 U   |
| 127-18-4Tetrachloroethene           | 10 0   |
| 79-34-51,1,2,2-Tetrachloroethane    | 10 0   |
| 108-88-3Toluene                     | 10 U   |
| 108-90-7Chlorobenzene               | 10 0   |
| 100-41-4Ethylbenzene                | 10     |
| 100-42-5Styrene                     | 10 T   |
| 1330-20-7Xylene (total)             | 10 U   |
|                                     |        |
|                                     |        |

## 1E

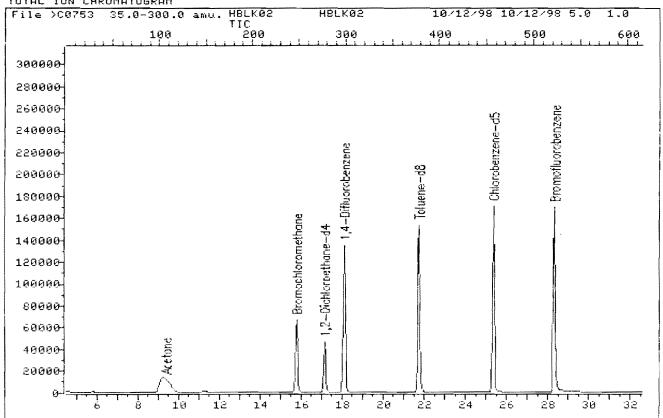
# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

| EPA  | SAMPLE NO | • |
|------|-----------|---|
| <br> |           | , |

HBLK02

|   | Lab Name: ACCREDITED | LABS, INC.    | Contract:                                 |
|---|----------------------|---------------|-------------------------------------------|
|   | Lab Code: 11109      | Case No.:     | SAS No.: SDG No.:                         |
| - | Matrix: (soil/water) | WATER         | Lab Sample ID: HBLK02                     |
|   | Sample wt/vol:       | 5.0 (g/mL) ML | Lab File ID: >C0753                       |
| - | Level: (low/med)     | LOW           | Date Received: 10/12/98                   |
|   | % Moisture: not dec. |               | Date Analyzed: 10/12/98                   |
|   | GC Column: RTX-502   | ID: 0.53 (mm) | Dilution Factor: 1.0                      |
|   | Soil Extract Volume: | (uL)          | Soil Aliquot Volume:(uL)                  |
|   | Number TICs found:   | 1             | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L |

| CAS NUMBER   | COMPOUND NAME       | RT   | EST. CONC. | Q |
|--------------|---------------------|------|------------|---|
| 1.           | Unknown Hydrocarbon | 9.17 | 12         | N |
| <i>C</i> . • | -                   |      |            |   |
| J •          |                     |      |            |   |
| ₩.           |                     |      |            |   |
| 5            |                     |      |            |   |
| 6            |                     |      |            |   |
| 7            |                     |      |            |   |
| 8.           |                     |      |            |   |
| 9.           |                     |      |            |   |
| 10.          |                     |      |            |   |
| 11.          |                     |      |            |   |
| 13.          |                     |      |            |   |
| 14.          |                     |      |            |   |
| 15.          |                     |      |            | - |
| 16.          |                     |      |            |   |
| 17.          |                     | -    |            |   |
| 18.          |                     |      |            |   |
| L9.          |                     |      |            |   |
| 20.          |                     |      |            |   |
| 21.          |                     |      |            |   |
| 22.          |                     |      |            |   |
| 23.          |                     |      |            |   |
| 24.          |                     | .    |            |   |
| 25.          |                     | .    |            |   |
| 26.<br>27.   |                     |      |            |   |
| 28.          |                     | -    |            |   |
| 29.          |                     |      |            |   |
| 30.          |                     | -    |            |   |
|              |                     | -    |            | - |



Name: HBLK02 HBLK02

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

981012 16:35 Quant Time: Injected at: 981012 16:01

## QUANT REPORT

perator ID: WILLIAM Quant Rev: 6 Quant Time: 981012 16:35 utput File: ^C0753::D2 Injected at: 981012 16:01

Data File: >C0753::Cl Dilution Factor: 1.00000

Name: HBLK02 HBLK02

isc: 10/12/98 10/12/98 5.0 1.0 L 7.0

ID File: IDPA24::SC

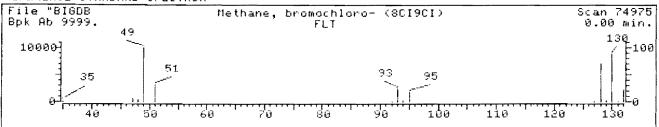
itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

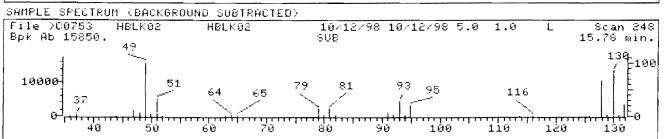
mast Calibration: 981012 14:27

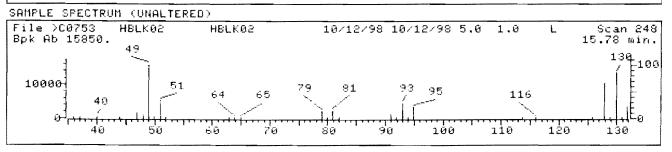
|             | Compound              | R.T.  | Scan# | Area   | Conc  | Units | q  |
|-------------|-----------------------|-------|-------|--------|-------|-------|----|
| •,,         | *Bromochloromethane   | 15.78 | 248   | 83353  | 50.00 | 110/1 | 92 |
| 7)          | Acetone               | 9.39  | 108   | 3987   | 13.09 | _     | 97 |
| 4)          | l,2-Dichloroethane-d4 | 17.14 | 278   | 112293 | 51.40 | ug/l  | 78 |
| <b>4</b> 6) | ⊹l,4-Difluorobenzene  | 18.10 | 299   | 443050 | 50.00 | ug/l  | 78 |
| 29)         | *Chlorobenzene-d5     | 25.35 | 458   | 359123 | 50.00 | ug/l  | 86 |
| 4)          | Toluene-d8            | 21.75 | 379   | 429110 | 49.12 | ug/l  | 94 |
| 7)          | Bromofluorobenzene    | 28.32 | 523   | 240356 | 47.77 | ug/l  | 88 |

 $[\]star$  Compound is ISTD









Name: HBLK02 HBLK02

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 16:35 Quant ID File: IDPA24::SC Injected at: 981012 16:01 Last Calibration: 981012 14:27

Compound No: 1 (ISTD)

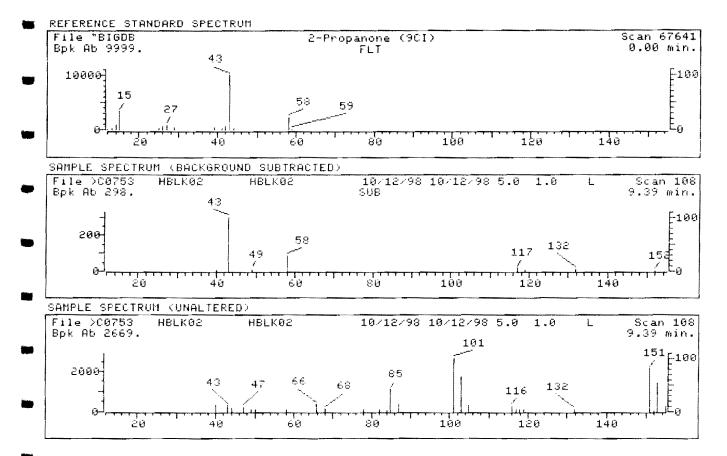
Compound Name: Bromochloromethane

Scan Number: 248

Retention Time: 15.78 min.

Quant Ion: 128.0 Area: 83353

Concentration: 50.00 ug/l



Name: HBLK02 HBLK02

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 16:35 Quant ID File: IDPA24::SC Injected at: 981012 16:01 Last Calibration: 981012 14:27

Compound No: 7

Compound Name: Acetone

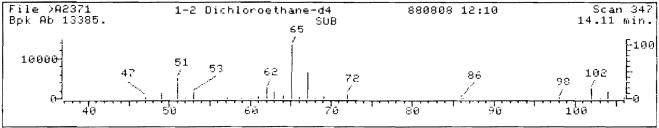
Scan Number: 108

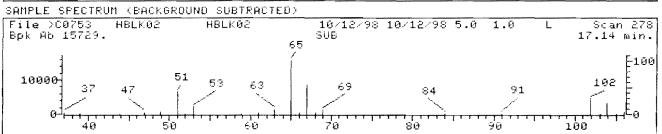
Retention Time: 9.39 min.

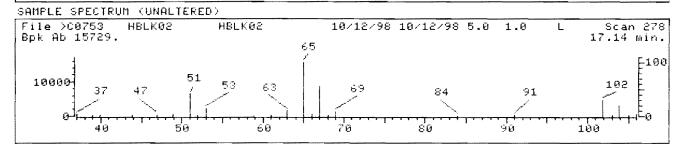
Quant Ion: 43.0 Area: 3987

Concentration: 13.09 ug/l









Name: HBLK02 HBLK02

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 16:35 Quant ID File: IDPA24::SC Injected at: 981012 16:01 Last Calibration: 981012 14:27

Compound No: 14

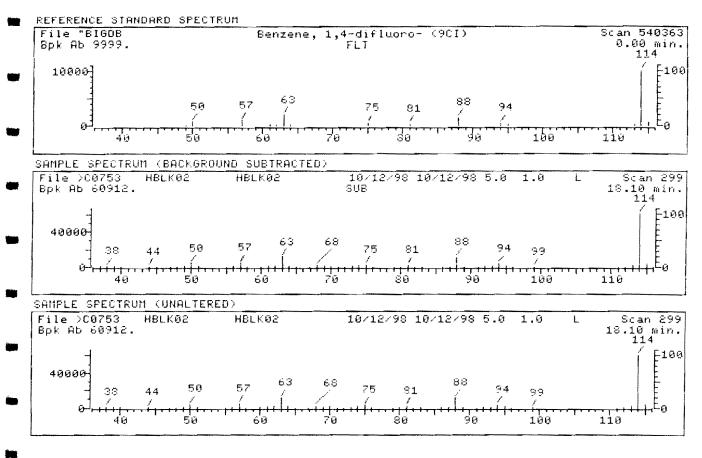
Compound Name: 1,2-Dichloroethane-d4

Scan Number: 278

Retention Time: 17.14 min.

Quant Ion: 65.0 Area: 112293

Concentration: 51.40 ug/1



Name: HBLK02 HBLK02

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 16:35 Quant ID File: IDPA24::SC Injected at: 981012 16:01 Last Calibration: 981012 14:27

Compound No: 16 (ISTD)

Compound Name: 1,4-Difluorobenzene

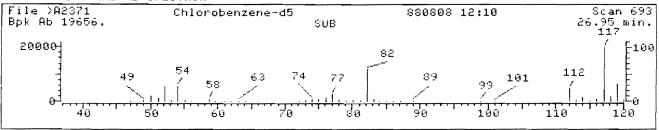
Scan Number: 299

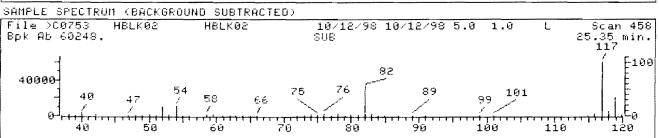
Retention Time: 18.10 min.

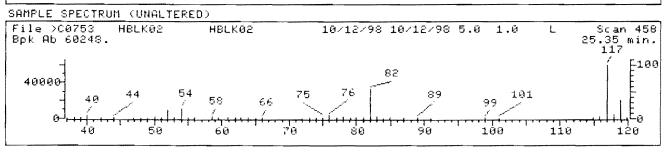
Quant Ion: 114.0 Area: 443050

Concentration: 50.00 ug/l









Name: HBLK02 HBLK02

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 16:35 Quant ID File: IDPA24::SC Injected at: 981012 16:01 Last Calibration: 981012 14:27

Compound No: 29 (ISTD)

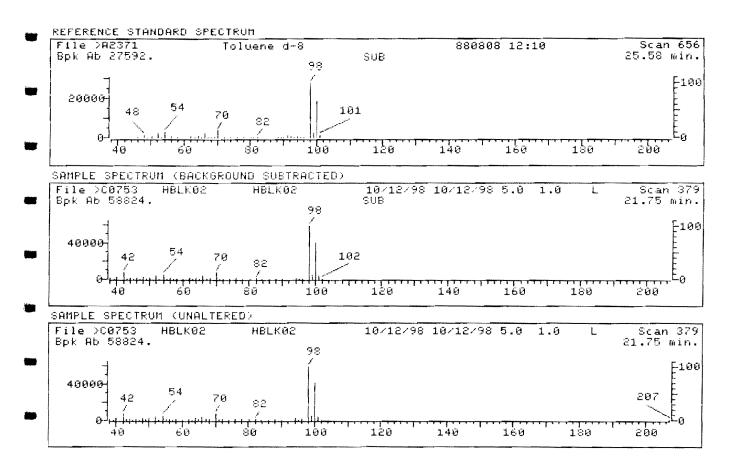
Compound Name: Chlorobenzene-d5

Scan Number: 458

Retention Time: 25.35 min.

Quant Ion: 117.0 Area: 359123

Concentration: 50.00 ug/l



Name: HBLK02 HBLK02

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0

Quant Time: 981012 16:35 Quant ID File: IDPA24::SC

Injected at: 981012 16:01 Last Calibration: 981012 14:27

Compound No: 34

Compound Name: Toluene-d8

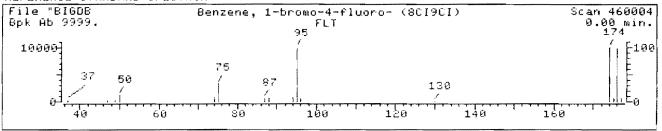
Scan Number: 379

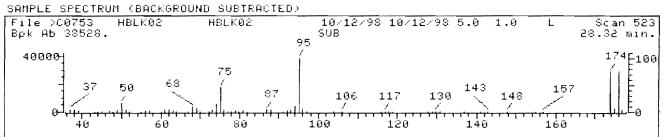
Retention Time: 21.75 min.

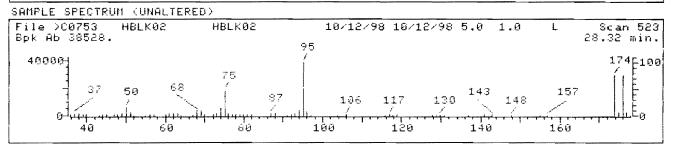
Quant Ion: 98.0 Area: 429110

Concentration: 49.12 ug/l

#### REFERENCE STANDARD SPECTRUM







Data File: >C0753::Cl Quant Output File: ^C0753::D2

Name: HBLK02 HBLK02

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0 Quant Time: 981012 16:35 Quant ID File: IDPA24::SC Injected at: 981012 16:01 Last Calibration: 981012 14:27

Compound No: 37

Compound Name: Bromofluorobenzene

Scan Number: 523

Retention Time: 28.32 min.

Quant Ion: 95.0 Area: 240356

Concentration: 47.77 ug/1

M data file header from : >C0753

Sample: HBLK02 HBLK02 Operator: WILLIAM REG. GRP. 10/12/98 16:01

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0

S_s. #: 1 MS model: 70 SW/HW rev.: IA ALS # : 0

Method file: ME624C Tuning file: MT7002 No. of extra records: 2 Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures: 30. 200. 0. 0. 0. Chromatographic times, min.: 8.0 1.2 0.0 0.0 0.0 Chromatographic rate, deg/min: 6.0 0.0 0.0 1.0 0.0

U slope: .20 Area Reject: 51494. Max Peaks: l Bunching: l Duslope: 0.00 Results File ICO753 Sorted by Area/Area INT

P ak R.T. first last max peak raw corr. corr. % of min. scan scan height # area area % max. total _____ 9.17 95 103 104 12676 128695 126897 100.00 100.000 1

Sum of corrected areas: 126897.
Summary of Unknowns PBM Library Search and Quantitation

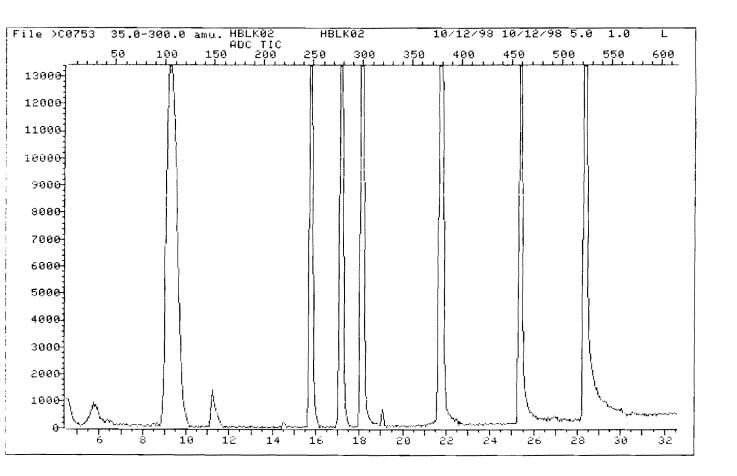
| , | Standard | Concentration | Area     | Retention<br>Time | Unknown<br>Window |       |  |
|---|----------|---------------|----------|-------------------|-------------------|-------|--|
|   |          |               |          |                   |                   |       |  |
| Í | 1        | 50.0          | 514939.  | 15.78             | 4.51 -            | 16.94 |  |
|   | 2        | 50.0          | 959013.  | 18.10             | 16.94 -           | 21.73 |  |
|   | 3        | 50.0          | 1026732. | 25.35             | 21.73 -           | 32.56 |  |

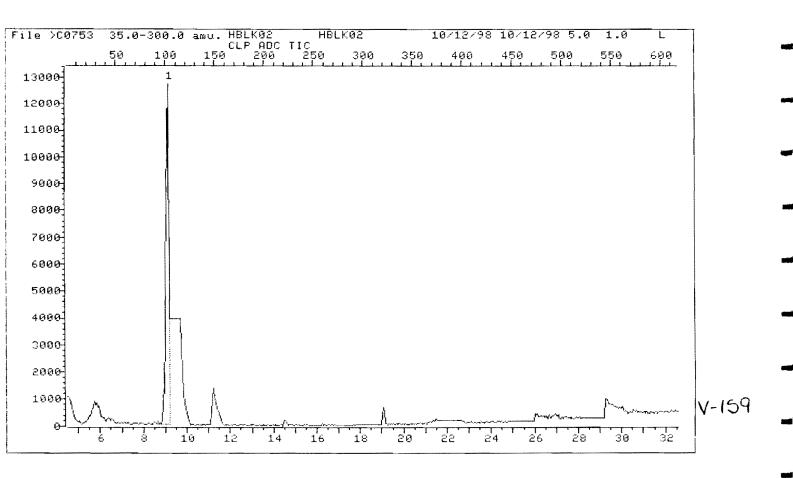
Rec Dil Factor (RDF) = 1.0000 Fractional Solids (FS) = 1.00Dilution Factor (DF) = 1.00 Percent Solids (PS) = 0.00

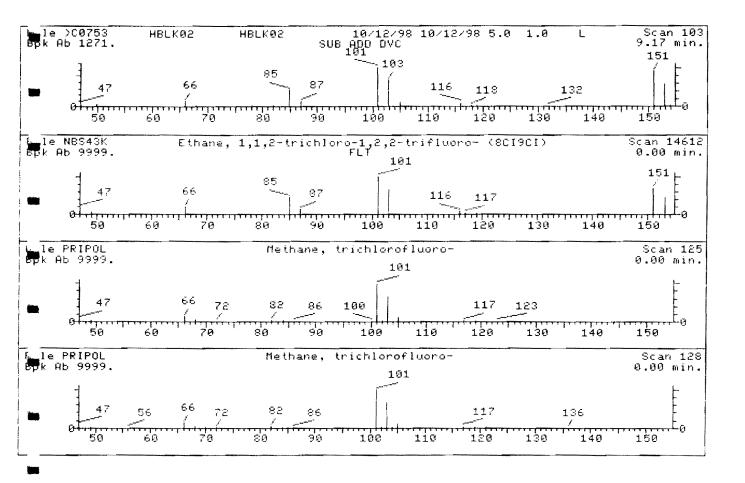
Correction Factor = 1.00 = 1 / (RDF * FS)

Conc Int Std
Unknown Concentration = ------ * Area Unk * Correction Factor
Area Int Std

11:29 PM WED., 14 OCT., 1998







UNKNOWN #,1
126897.0 TENTATIVE CONCENTRATION IS 12.00

REA =

1. Ethane, 1,1,2-trichloro-1,2,2-trifluoro-(8CI9CI)

2. Methane, trichlorofluoro3. Methane, trichlorofluoro4. Methane, trichlorofluoro-(8CI9CI)

186 C2C13F3
136 CC13F

Sample file: >C0753 Spectrum #: 103
mearch speed: 1 Tilting option: N No. of ion ranges searched: 49

Prob. CAS # CON # K #FLG TILT 2 ROOT DK CON C_I R_IV 52 76131 9515 NBS43K 70 68 2 0 74 19 20 16

## 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N.

| Lab Name: ACCREDITED | LABS, INC.    | Contract:        | BLANKMS     |
|----------------------|---------------|------------------|-------------|
| Lab Code: 11109      | Case No.:     | SAS No.: SDG No  | ) <b>.:</b> |
| Matrix: (soil/water) | WATER         | Lab Sample ID: F | SLANKMS     |
| Sample wt/vol:       | 5.0 (g/mL) ML | Lab File ID: >   | ·C0760      |
| Level: (low/med) I   | LOW           | Date Received: 1 | .0/12/98    |
| % Moisture: not dec  |               | Date Analyzed: 1 | .0/12/98    |
| GC Column: RTX-502   | ID: 0.53 (mm) | Dilution Factor: | 1.0         |
| Soil Extract Volume: | (uL)          | Soil Aliquot Vol | ume: (uL)   |

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 74-87-3-----Chloromethane 10 U 74-83-9-----Bromomethane 10 Ū 75-01-4-----Vinyl Chloride Ū 10 75-00-3-----Chloroethane 10 Ū 75-09-2----Methylene Chloride  $\overline{\mathtt{J}}$   $\overline{\mathtt{B}}$ 4 Ū 67-64-1-----Acetone 10 75-15-0-----Carbon Disulfide 10 Ū 75-35-4-----1,1-Dichloroethene43 U 75-34-3-----1,1-Dichloroethane 10 540-59-0----1,2-Dichloroethene (total) U 10 67-66-3----Chloroform 10 IJ 107-06-2----1,2-Dichloroethane 10 IJ 78-93-3----2-Butanone Ū 10 71-55-6----1,1,1-Trichloroethane 10 U 56-23-5-----Carbon Tetrachloride 10 Ū 75-27-4-----Bromodichloromethane 10 Ū 78-87-5-----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 46 124-48-1-----Dibromochloromethane U 10 79-00-5-----1,1,2-Trichloroethane 10 Ū 71-43-2----Benzene 49 10061-02-6----trans-1,3-Dichloropropene 10 U 75-25-2----Bromoform 10 Ū  $108-10-1-----4-Methyl-\overline{2-Pentanone}$ Ū 10 591-78-6----2-Hexanone 10 Ū 127-18-4-----Tetrachloroethene Ū 10 79-34-5----1,1,2,2-Tetrachloroethane 10 Ū 108-88-3-----Toluene 49 108-90-7-----Chlorobenzene 49 100-41-4----Ethylbenzene 10 Ū 100-42-5----Styrene 10 U 1330-20-7-----Xylene (total) 10

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BLANKMSD

Q

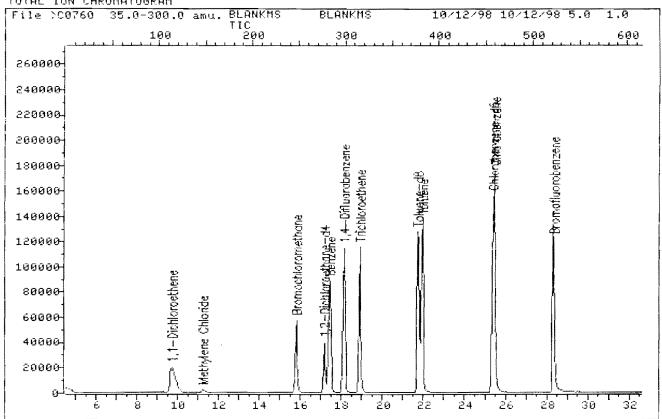
|   | Lab Name: ACCREDITED LABS, INC.  | Contract:                |
|---|----------------------------------|--------------------------|
| _ | Lab Code: 11109 Case No.:        | SAS No.: SDG No.:        |
| • | Matrix: (soil/water) WATER       | Lab Sample ID: BLANKMSD  |
|   | Sample wt/vol: 5.0 (g/mL) ML     | Lab File ID: >C0761      |
| - | Level: (low/med) LOW             | Date Received: 10/12/98  |
|   | % Moisture: not dec              | Date Analyzed: 10/12/98  |
|   | GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0     |
|   | Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL) |
| - |                                  | CONCENTRATION LINITES.   |

(ug/L or ug/Kg) UG/L

COMPOUND

CAS NO.

74-87-3-----Chloromethane U 10 74-83-9-----Bromomethane Ū 10 75-01-4-----Vinyl Chloride Ū 10 75-00-3-----Chloroethane 10 Ū  $\overline{J}$   $\overline{B}$ 75-09-2----Methylene Chloride 6 67-64-1-----Acetone Ū 10 75-15-0-----Carbon Disulfide 10 U 75-35-4-----1,1-Dichloroethene 44 75-34-3-----1,1-Dichloroethane Ū 10 540-59-0----1,2-Dichloroethene (total) 10 U 67-66-3-----Chloroform 10 IJ 107-06-2----1,2-Dichloroethane 10 H 78-93-3----2-Butanone 10 IJ 71-55-6----1,1,1-Trichloroethane 10 IJ 56-23-5-----Carbon Tetrachloride 10 U 75-27-4-----Bromodichloromethane 10 Ū 78-87-5----1,2-Dichloropropane 10 U 10061-01-5----cis-1,3-Dichloropropene 10 U 79-01-6-----Trichloroethene 46 124-48-1-----Dibromochloromethane TT 10 79-00-5----1,1,2-Trichloroethane 10 U 71-43-2----Benzene 50 10061-02-6----trans-1,3-Dichloropropene Ū 10 75-25-2----Bromoform Ū 10 108-10-1----4-Methyl-2-Pentanone Ū 10 591-78-6----2-Hexanone Ū 10 127-18-4----Tetrachloroethene 10 Ū 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene 50 108-90-7-----Chlorobenzene 50 U 100-41-4-----Ethylbenzene 10 100-42-5-----Styrene 10 Ù. 1330-20-7-----Xylene (total) 10 U



Data File: >C0760::Cl Quant Output File: ^C0760::QT

Name: BLANKMS BLANKMS

Misc: 10/12/98 10/12/98 5.0 1.0 L 7.0

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

Quant Time: 981013 08:31 Injected at: 981012 20:35

#### QUANT REPORT

 ^perator ID: WILLIAM
 Quant Rev: 6 Quant Time: 981013 08:31

 utput File: ^C0760::QT
 Injected at: 981012 20:35

 Data File: >C0760::Cl
 Dilution Factor: 1.00000

Name: BLANKMS BLANKMS

isc: 10/12/98 10/12/98 5.0 1.0 L 7.0

ID File: IDPA24::SC

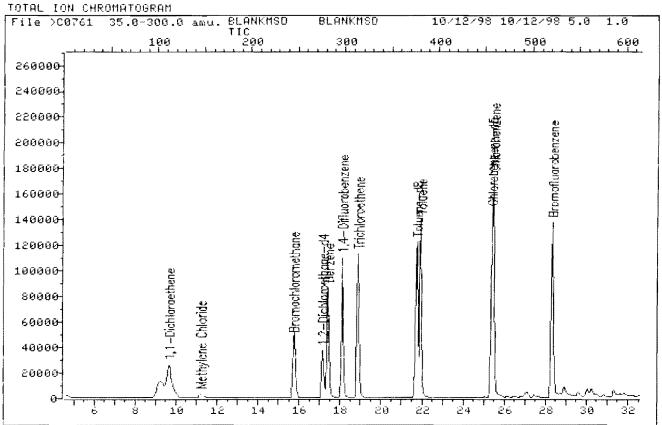
itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

_ast Calibration: 981012 14:27

|              | Compound              | R.T.  | Scan# | Area   | Conc  | Units | q      |
|--------------|-----------------------|-------|-------|--------|-------|-------|--------|
| <b>-</b> 1)  | *Bromochloromethane   | 15.80 | 248   | 70042  | 50.00 | ug/l  | <br>89 |
| 6)           | Methylene Chloride    | 11.24 | 148   | 7606   | 3.62  | ug/l  | 89     |
| 9)           | l, l-Dichloroethene   | 9.74  | 115   | 85488  | 42.64 | ug/l  | 98     |
| <b>4</b> )   | l,2-Dichloroethane-d4 | 17.17 | 278   | 96096  | 52.35 | ug/l  | 80     |
| 16)          | *l,4-Difluorobenzene  | 18.13 | 299   | 374553 | 50.00 | ug/l  | 79     |
| 3)           | Trichloroethene       | 18.90 | 316   | 162136 | 45.55 | ug/l  | 87     |
| <u> </u> 4 ) | Benzene               | 17.44 | 284   | 341975 | 49.42 | ug/l  | 100    |
| 29)          | *Chlorobenzene-d5     | 25.38 | 458   | 310379 | 50.00 | ug/1  | 89     |
| 34)          | Toluene-d8            | 21.73 | 378   | 369133 | 48.89 | ug/l  | 94     |
| _ 5)         | Toluene               | 21.96 | 383   | 412463 | 48.91 | ug/1  | 99     |
| 56)          | Chlorobenzene         | 25.47 | 460   | 322552 | 49.16 | ug/l  | 95     |
| 37)          | Bromofluorobenzene    | 28.34 | 523   | 209784 | 48.24 | ug/l  | 92     |

■ Compound is ISTD

V-164



Data File: >C0761::C1 Quant Output File: ^C0761::QT

Name: BLANKMSD BLANKMSD

10/12/98 10/12/98 5.0 1.0 L 7.0 Misc:

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

Quant Time: 981013 08:33 Injected at: 981012 21:15

#### QUANT REPORT

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981013 08:33

 Injected at: 981012 21:15

 Data File: >C0761::C1
 Dilution Factor: 1.00000

Name: BLANKMSD BLANKMSD

lisc: 10/12/98 10/12/98 5.0 1.0 L 7.0

**~** 

ID File: IDPA24::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

ast Calibration: 981012 14:27

|            | Compound              | R.T.  | Scan# | Area   | Conc  | Units | q   |
|------------|-----------------------|-------|-------|--------|-------|-------|-----|
| <b>1</b> ) | *Bromochloromethane   | 15.74 | 246   | 65648  | 50.00 | ug/l  | 89  |
| 6)         | Methylene Chloride    | 11.22 | 147   | 11072  | 5.63  | ug/l  | 92  |
| €)         | l,l-Dichloroethene    | 9.67  | 113   | 82701  | 44.01 | ug/l  | 97  |
| <b>4</b> ) | l,2-Dichloroethane-d4 | 17.15 | 277   | 89872  | 52.23 | ug/l  | 80  |
| 16)        | ★1,4-Difluorobenzene  | 18.11 | 298   | 356588 | 50.00 | ug/l  | 79  |
| 3)         | Trichloroethene       | 18.88 | 315   | 156988 | 46.32 | ug/l  | 86  |
| <u> </u>   | Benzene               | 17.42 | 283   | 332391 | 50.46 | ug/1  | 100 |
| 29)        | *Chlorobenzene-d5     | 25.36 | 457   | 293369 | 50.00 | ug/l  | 8 7 |
| 34)        | Toluene-d8            | 21.76 | 378   | 351008 | 49.19 | ug/l  | 95  |
| 5)         | Toluene               | 21.94 | 382   | 398568 | 50.01 | ug/l  | 99  |
| 56)        | Chlorobenzene         | 25.45 | 459   | 313627 | 50.57 | ug/l  | 95  |
| 37)        | Bromofluorobenzene    | 28.32 | 522   | 193966 | 47.19 | ug/l  | 92  |

■ Compound is ISTD

V-166

# VOLATILE ORGANICS ANALYSIS DATA SHEET

| EP | Α | SF | IM | PL | E | N |  |
|----|---|----|----|----|---|---|--|
|    |   |    |    |    |   |   |  |

|                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                |                                                                                                             | l                                                                                                | 72-73MS                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------|
| Lab Name: ACCREDITE                                                                                                                                                                                                         | D LABS, INC.                                                                                                                                                                                                                                                                   | Contract:                                                                                                   |                                                                                                  | 72 73110                  |
| Lab Code: 11109                                                                                                                                                                                                             | Case No.: 1781                                                                                                                                                                                                                                                                 | SAS No.:                                                                                                    | SDG No.                                                                                          | . :                       |
| Matrix: (soil/water                                                                                                                                                                                                         | ) WATER                                                                                                                                                                                                                                                                        | Lab Sar                                                                                                     | mple ID: 98                                                                                      | 310778 <b>M</b> S         |
| Sample wt/vol:                                                                                                                                                                                                              | 5.0 (g/mL) ML                                                                                                                                                                                                                                                                  | Lab Fil                                                                                                     | le ID: >0                                                                                        | 0758                      |
| Level: (low/med)                                                                                                                                                                                                            | LOW                                                                                                                                                                                                                                                                            | Date Re                                                                                                     | eceived: 09                                                                                      | 9/21/98                   |
| % Moisture: not dec                                                                                                                                                                                                         | •                                                                                                                                                                                                                                                                              | Date Ar                                                                                                     | nalyzed: 10                                                                                      | 0/12/98                   |
| GC Column: RTX-502                                                                                                                                                                                                          | ID: 0.53 (mm)                                                                                                                                                                                                                                                                  | Dilutio                                                                                                     | on Factor:                                                                                       | 1.0                       |
| Soil Extract Volume                                                                                                                                                                                                         | :(uL)                                                                                                                                                                                                                                                                          | Soil Al                                                                                                     | liquot Volu                                                                                      | me:(uL)                   |
|                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                | CONCENTRATION                                                                                               | I INTOC.                                                                                         |                           |
| CAS NO.                                                                                                                                                                                                                     | COMPOUND                                                                                                                                                                                                                                                                       | (ug/L or ug/F                                                                                               |                                                                                                  | Q                         |
| 74-83-9 75-01-4 75-00-3 75-09-2 67-64-1 75-15-0 75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 75-27-4 75-27-4 78-87-5 10061-01-5 79-01-6 124-48-1 79-00-5 124-48-1 79-00-5 1061-02-6 75-25-2 108-10-1 591-78-6 127-18-4 | Carbon Disulf:1,1-Dichloroe1,2-Dichloroe1,2-Dichloroe2-Butanone1,1,1-TrichlorCarbon TetraclBromodichloroe1,2-Dichloroptis-1,3-DichloroeTrichloroetherDibromochloror1,1,2-TrichlorBenzenetrans-1,3-DichloroetherBromoform4-Methyl-2-Per2-HexanoneTetrachloroether1,1,2,2-Tetrac | ide thene thane thene (total) thane coethane nloride methane ropane oropropene methane methane nloropropene | 1<br>1<br>4<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 0                         |
| 100-41-4                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                |                                                                                                             | 1                                                                                                | 19<br>10 <u>U</u><br>10 U |
| 1330-20-7                                                                                                                                                                                                                   | Xylene (total                                                                                                                                                                                                                                                                  |                                                                                                             | 1                                                                                                | ron                       |

V-167

# VOLATILE ORGANICS ANALYSIS DATA SHEET

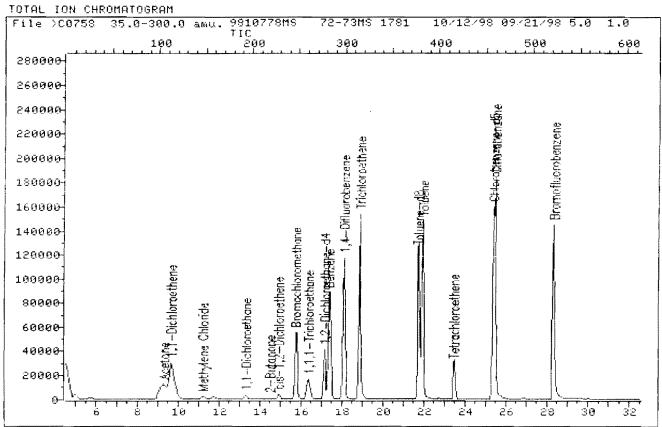
EPA SAMPLE NO.

| 72-73 <b>M</b> SD |  |
|-------------------|--|
|-------------------|--|

|   | Lab Name: ACCREDITED | LABS, INC.     | Contract:        | 72-73M3D           |
|---|----------------------|----------------|------------------|--------------------|
|   | Lab Code: 11109      | Case No.: 1781 | SAS No.: SDG No  | . :                |
| - | Matrix: (soil/water) | WATER          | Lab Sample ID: 9 | 810778 <b>M</b> SD |
|   | Sample wt/vol:       | 5.0 (g/mL) ML  | Lab File ID: >   | C0759              |
|   | Level: (low/med) I   | LOW            | Date Received: 0 | 9/21/98            |
| _ | % Moisture: not dec. |                | Date Analyzed: 1 | 0/12/98            |
|   | GC Column: RTX-502   | ID: 0.53 (mm)  | Dilution Factor: | 1.0                |
|   | Soil Extract Volume: | (uL)           | Soil Aliquot Vol | ume: (uL)          |

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

| 74-87-3Chloromet    | nane                 | 10    | U                                               |
|---------------------|----------------------|-------|-------------------------------------------------|
| 74-83-9Bromometh    |                      | 10    | U                                               |
| 75-01-4Vinyl Chl    |                      | 10    | u-                                              |
| 75-00-3Chloroeth    |                      | 10    | u-                                              |
| 75-09-2Methylene    |                      | - 4   | JB                                              |
| 67-64-1Acetone      | 011101101            | 45    | -"-"-                                           |
| 75-15-0Carbon Di    | sulfide              | 10    | 1                                               |
| 75-35-41,1-Dichle   |                      | 52    | °                                               |
| 75-34-31,1-Dichle   | oroethane            | -     | J                                               |
| 540-59-01,2-Dichle  | proethene (fotal)    | 3     | -J                                              |
| 67-66-3Chlorofor    | m (cocar)            | 10    | -" <del>II</del>                                |
| 107-06-21,2-Dichle  |                      | 10    | Ŭ                                               |
| 78-93-32-Butanon    |                      | - 8   | J                                               |
| 71-55-61,1,1-Trie   |                      | 16    |                                                 |
| 56-23-5Carbon Te    |                      | 10    | <del>                                    </del> |
| 75-27-4Bromodich    |                      | 10    | -u-                                             |
| 78-87-51,2-Dichle   |                      | 10    | ₁₁                                   |
| 10061-01-5cis-1,3-D |                      | 10    | rr                                              |
| 79-01-6Trichloro    | tchroropropene       | 59    |                                                 |
| 124-48-1Dibromoch   |                      | 10    | l U                                             |
| 79-00-51,1,2-Trie   |                      | - 10  | u-                                              |
| 71-43-2Benzene      | anior dechane        | - 50  | ⁰                                    |
| 10061-02-6trans-1,3 | Dichloropropo        | 10    | <del>- U</del>                                  |
| 75-25-2Bromoform    | -Dictitor obt obene  | 10    | 1-0-                                            |
| 108-10-14-Methyl-   | 2-Pontanone          | 10    | <del>u</del>                                    |
| 591-78-62-Hexanon   |                      | 10    | 1-0-                                            |
| 127-18-4Tetrachlo   |                      | 10    |                                                 |
| 79-34-51,1,2,2-Te   |                      | 10    | 1-11                                            |
| 108-88-3Toluene     | etraciiror decilarie | 49    | '-                                              |
| 108-88-3            | 7000                 | 49    | ·                                               |
|                     |                      | 10    | l-U                                             |
| 100-41-4Ethylbenz   | =116                 | 10    |                                                 |
| 100-42-5Styrene     | stat!                | .     | U                                               |
| 1330-20-7Xylene (to | lcail                | .] 10 | U                                               |



Data File: >C0758::C1 Quant Output File: ^C0758::QT

Name: 9810778MS 72-73MS

Misc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

Quant Time: 981013 08:23 Injected at: 981012 19:17

#### QUANT REPORT

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981013 08:23

 Litput File: ^C0758::QT
 Injected at: 981012 19:17

 Data File: >C0758::Cl
 Dilution Factor: 1.00000

Name: 9810778MS 72-73MS

.isc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

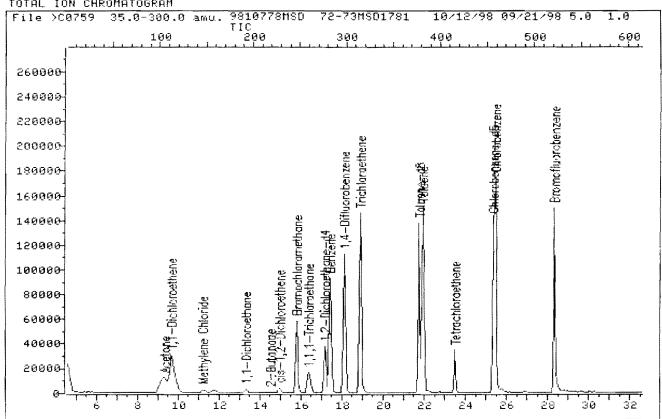
ID File: IDPA24::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

_ast Calibration: 981012 14:27

|                 | Compound                    | R.T.  | Scan# | Area   | Conc  | Units | q   |
|-----------------|-----------------------------|-------|-------|--------|-------|-------|-----|
| <b>—</b> i )    | *Bromochloromethane         | 15.74 | 247   | 72737  | 50.00 | ug/l  | 90  |
| 6)              | Methylene Chloride          | 11.23 | 148   | 8648   | 3.97  | ug/l  | 8 7 |
| 7)              | Acetone                     | 9.31  | 106   | 11326  | 42.63 | ug/l  | 90  |
| <b>***</b> )    | l,l-Dichloroethene          | 9.68  | 114   | 108509 | 52.11 | ug/l  | 98  |
| 10)             | l,l-Dichloroethane          | 13.32 | 194   | 15238  | 3.96  | ug/l  | 86  |
| ( j             | cis-l,2-Dichloroethene      | 14.92 | 229   | 8112   | 3.22  | ug/l  | 89  |
|                 | l,2-Dichloroethane~d4       | 17.15 | 278   | 98257  | 51.54 | ug/l  | 80  |
| <del>1</del> 6) | <b>☆l,4-Difluorobenzene</b> | 18.11 | 299   | 386664 | 50.00 | ug/l  | 80  |
| 17)             | 2-Butanone                  | 14.51 | 220   | 4571   | 7.63  | ug/l  | 99  |
| _ 3)            | l,l,l-Trichloroethane       | 16.38 | 261   | 64158  | 15.57 | ug/1  | 92  |
| 23)             | Trichloroethene             | 18.89 | 316   | 217137 | 59.09 | ug/l  | 88  |
| 24)             | Benzene                     | 17.38 | 283   | 353300 | 49.46 | ug/l  | 100 |
| <b>)</b> )      | *Chlorobenzene-d5           | 25.36 | 458   | 320239 | 50.00 | ug/l  | 87  |
| <b>**</b> ? )   | Tetrachloroethene           | 23.45 | 416   | 34950  | 10.25 | ug/l  | 89  |
| 34)             | Toluene-d8                  | 21.71 | 378   | 380072 | 48.79 | ug/l  | 94  |
| ^5)             | Toluene                     | 21.94 | 383   | 426473 | 49.02 | ug/l  | 99  |
| <u></u> 5 )     | Chlorobenzene               | 25.45 | 460   | 333906 | 49.33 | ug/l  | 95  |
| 37)             | Bromofluorobenzene          | 28.33 | 523   | 216431 | 48.24 | ug/l  | 92  |

compound is ISTD



Data File: >C0759::C1 Quant Output File: ^C0759::QT

Name: 9810778MSD 72-73MSD

10/12/98 09/21/98 5.0 Misc: 1781 1.0 7.0 L

Id File: IDPA24::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981012 14:27

Operator ID: WILLIAM

Quant Time: 981013 08:27 Injected at: 981012 19:57

#### QUANT REPORT

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981013 08:27

 Itput File: ^C0759::QT
 Injected at: 981012 19:57

 Data File: >C0759::Cl
 Dilution Factor: 1.00000

Name: 9810778MSD 72-73MSD

lisc: 1781 10/12/98 09/21/98 5.0 1.0 L 7.0

MA.

ID File: IDPA24::SC

'itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

ast Calibration: 981012 14:27

|            | Compound               | R.T.  | Scan# | Area    | Conc  | Units | q   |
|------------|------------------------|-------|-------|---------|-------|-------|-----|
| <b>1</b> ) | *Bromochloromethane    | 15.79 | 247   | 69208   | 50.00 | ug/l  | 93  |
| 6)         | Methylene Chloride     | 11.23 | 147   | 8550    | 4.12  | ug/l  | 89  |
| 7)         | Acetone                | 9.36  | 106   | 11378   | 45.01 | ug/l  | 93  |
|            | l,l-Dichloroethene     | 9.67  | 113   | 103698  | 52.34 | ug/l  | 98  |
| 10)        | l,l-Dichloroethane     | 13.32 | 193   | 14426   | 3.94  | ug/l  | 86  |
| 1.)        | cis-1,2-Dichloroethene | 14.96 | 229   | 7594    | 3.16  | ug/l  | 95  |
| <u> </u>   | l,2-Dichloroethane-d4  | 17.15 | 277   | 95035   | 52.39 | ug/l  | 77  |
| 16)        | ★1,4-Difluorobenzene   | 18.11 | 298   | 367555  | 50.00 | ug/l  | 7.7 |
| 17)        | 2-Butanone             | 14.51 | 219   | 4516    | 7.93  | ug/l  | 93  |
| 3)         | l,l,l-Trichloroethane  | 16.38 | 260   | 61378   | 15.67 | ug/l  | 94  |
| 23)        | Trichloroethene        | 18.89 | 315   | 206879M | 59.22 | ug/l  |     |
| 24)        | Benzene                | 17.43 | 283   | 337693  | 49.74 | ug/l  | 100 |
| , 1)       | *Chlorobenzene-d5      | 25.36 | 457   | 309304  | 50.00 | ug/l  | 85  |
| TP)        | Tetrachloroethene      | 23.49 | 416   | 33649   | 10.22 | ug/1  | 94  |
| 34)        | Toluene-d8             | 21.76 | 378   | 367248  | 48.81 | ug/l  | 95  |
| 25)        | Toluene                | 21.94 | 382   | 414737  | 49.36 | ug/1  | 99  |
| <u>(i</u>  | Chlorobenzene          | 25.45 | 459   | 321218  | 49.13 | ug/l  | 95  |
| 37)        | Bromofluorobenzene     | 28.33 | 5 2 2 | 209670  | 48.39 | ug/l  | 8 4 |

r Compound is ISTD

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# ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

LAWLER, MATUSKY & SKELLY ENGINEERS LLP

Analytical Data Report

for

OCT 2 1 1998

L M S One Blue Hill Plaza Pearl River, NY 10965 For Hazardous Waste Section

Project: Former L A K A Soil Probing

Accredited Laboratories Case No.: 1933 Date Received: 10/01/98

| Sample # |
|----------|
| 9811260  |
|          |

Accredited Laboratories, Inc. New York Certification Number 11109. This data has been reviewed and accepted by:

Theodore C. Gaydos Technical Director

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#### SDG NARRATIVE

Accredited Labs received 1 soil sample (Project: Former LAKA Soil Probing; ALI Case #1933) from LMS Engineers on 10/1/98 for the analyses of Volatile Organics.

All analyses were performed within the required holding time.

All analyses were reported on a dry weight basis.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above.

Release of the data contained in this disc deliverable and hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Theodore C. Gaydos Technical Director

# Λ

COMMENTS

## ACCREDITED LABORATORIES, INC.

**CHAIN OF CUSTODY FORM** 

20 PERSHING AVENUE CARTERET, NEW JERSEY 07008 PHONE: (732) 541-2025 / (800) ALI-LABS

|      | 1 |    | ı |
|------|---|----|---|
| PAGE | ŧ | OF | l |

| CLIENT  | LMS ENgiNER   | 15  | _     | PROJECT | Forme   |
|---------|---------------|-----|-------|---------|---------|
| ADDRESS | One Blue Hill | Pla | za.   | CONTACT | Mario   |
| CITY    | Pearl River   |     |       | PHONE   | 914-    |
| STATE   | NY            | ZIP | 10965 | FAX     | 914 - 7 |
|         |               |     |       |         |         |

| PROJECT | Former LAKA Soil probing |
|---------|--------------------------|
| CONTACT | Maria Heincz             |
| PHONE   | 914 - 735-8300           |
| FAX     | 914 - 735 - 7466         |

ALI QUOTE#

P.O.# *

| STATE           | <u> </u>                                 | <u>Y</u>             |              | ZI          | Р        | 10965                         |                     | FAX           | 914 -                   | 735-       | 7466          |                                         |
|-----------------|------------------------------------------|----------------------|--------------|-------------|----------|-------------------------------|---------------------|---------------|-------------------------|------------|---------------|-----------------------------------------|
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|                 | ~\                                       | 9-3                  | 0-98         | )           | <u>`</u> | *                             |                     |               |                         |            |               |                                         |
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# Accredited Laboratories, Inc.

## INTERNAL CHAIN OF CUSTODY

| Seal on | Sample  | son Breaking<br>Shuttle & A<br>for Sample |              | NI ANTONE             | 111           | ocation: ( |                         |  |
|---------|---------|-------------------------------------------|--------------|-----------------------|---------------|------------|-------------------------|--|
| field S | ample S | eal No                                    | Sure 0       | ate Broken://_        | Military      | Time Seal  | Broken                  |  |
| Case No | •       | 1933                                      |              | Check if No Seal on S | ample Shuttle | •          |                         |  |
| 7       | Field   | i #                                       | Laboratory # | Test Name             | Date Sa       | mpled      | Date Receive            |  |
| 16-     | -20     |                                           | 9811260      | vo                    | 09/30         | /98        | 10/01/98                |  |
| DATE    | TIME    | RELINQUISH                                | IED BY       | RECEIVED BY           |               | PUR        | POSE OF CHANGE OF CUSTO |  |
|         |         | Printed                                   | ANTONE       | Printed Name W.U      | orente        |            |                         |  |
| 10/4/48 |         | Signature                                 | Marladel     | Signature ALA         | toferts       | ANALYSIS   |                         |  |
|         |         | Printed Na                                | me           | Printed Name          | Ú             |            |                         |  |
|         |         | Signature                                 |              | Signature             |               |            |                         |  |
|         |         | Printed Na                                | me           | Printed Name          |               |            |                         |  |
|         |         | Signature                                 |              | Signature             |               |            |                         |  |
|         |         | Printed Na                                | une          | Printed Name          |               |            |                         |  |
|         |         | Signature                                 |              | Signature             |               |            |                         |  |
|         |         | Printed Na                                | me           | Printed Name          |               |            |                         |  |
|         |         | Signature                                 |              | Signature             |               |            |                         |  |
|         |         | Printed Na                                | ume .        | Printed Name          |               |            |                         |  |
|         |         | Signature                                 |              | Signature             |               |            |                         |  |
|         |         | Printed Na                                | ane          | Printed Name          |               |            |                         |  |
|         |         | Signature                                 |              | Signature             |               |            | •                       |  |

FORM: | 291COC |

Date: 10/13/98

ACCREDITED LABORATORIES, INC.

Time: 15:43:

#### ORGANIC ANALYSIS LABORATORY CHRONICLE

| OTHER=NY-A             | SP B C | CORRECTED         | 10/13:     | CHANGE  | 9811260                    | )-2 TO | ONE SAM  | PLE (MS/I | (SD)                                             |
|------------------------|--------|-------------------|------------|---------|----------------------------|--------|----------|-----------|--------------------------------------------------|
| Client: L              | M S    |                   | D. t.      | Duna 1  | 0/06/00                    |        |          | Due: 10,  |                                                  |
| Client Pro             | ject N | ran<br>Tame: Form | er L A     | K A So  | <b>0/06/98</b><br>il Probi | .ng    | ard Copy | Due: 10/  | 13/98                                            |
| Date Sampl             | ed:09/ | 30/98 Date        | e Rece     | ived:10 | /01/98 R                   | Report | Package  | : Other   |                                                  |
| Test: VO<br>Test Descr | iption | :Volatile         | Organ      | ics (VO | )                          |        |          | QC#:      | <del>*************************************</del> |
|                        |        | By Method:        | :          |         |                            |        |          |           | <b>6</b> 0.7                                     |
| SAMPLE                 | IDENT  | IFICATION         | М          | EXT     | RACTION                    |        | A        | NALYSIS   | T]<br>FLA                                        |
| Field#                 | Case#  | Sample#           | x 1        | Date    | Time                       | Init   | Date     | Time      | Init                                             |
| 16-20                  | 193    | 3 9811260         | = ===<br>S |         |                            |        | 10/09/98 | <br>,     | N.L.                                             |

UP (SUPERFUND) as per N.O. 10/8/98 FALLY

MS/MSD

| Reviewed | by | : | Date | : |
|----------|----|---|------|---|
|          | _  |   |      |   |

Abreviations: Sample Matrix:

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge X=Other RPT:Report

# Qualifiers (Organics)

The EPA-defined qualifiers to be used in the organic analysis are follows:

- U Indicates compound was analyzed for but not detected.
- J Indicates an estimated value. The flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds where a 1:1 response i assumed, 2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL but greater than zero, 3) when the retention time data indicate the presence of a compound that meets the pesticide/Aroclor identification criteria and the result is less than the CRQL but greater than zero.
- N Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- C This flag applies to pesticide results where the <u>identification</u> has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a respons greater than full scale, except as noted in QA/QC requirements, the sample or extract must be diluted and re-analyzed according to the specifications in QA/QC requirements. All such compounds with a response greater than full scale should have the concentration flagged with ar "E" on the Form I for the original analysis. If the diluti of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
- D This flag identifies all compounds identified in an analysia at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag.
- A This flag indicates that a TIC is a suspected aldol-condensation product.

#### 2B SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ACCREDITED LABS, INC. Contract:_____

Level: (low/med) MED

|          | EPA                                     | SMC1   | SMC2   | SMC3    | OTHER | TOT |
|----------|-----------------------------------------|--------|--------|---------|-------|-----|
|          | SAMPLE NO.                              | (TOL)# | (BFB)# | (DCE) # |       | OUT |
|          |                                         |        |        |         |       | === |
| 01       | VBLKC81                                 | 97     | 89     | 96      |       | 0   |
| 02       | HBLK                                    | 97     | 95     | 95      |       | 0   |
| 03       | HBLK01                                  | 99     | 93     | 100     |       | 0   |
| 04       | 16-20                                   | 102    | 99     | 93      | -     | 0   |
| 05       | BLANKMS                                 | 98     | 97     | 94      |       | 0   |
| 06       | BLANKMSD                                | 98     | 94     | 96      |       | 0   |
| 07       | 16-20MS                                 | 98     | 99     | 100     |       | 0   |
| 80       | 16-20MSD                                | 97     | 100    | 99      |       | 0   |
| 09       | *************************************** |        |        |         |       |     |
| 10       |                                         |        |        |         |       | I   |
| 11<br>12 |                                         |        |        |         |       |     |
| 13       |                                         |        |        |         |       |     |
| 14       |                                         |        |        |         | -     |     |
| 15       |                                         |        |        |         |       |     |
| 16       |                                         |        |        |         |       |     |
| 17       | ****                                    |        |        |         |       |     |
| 18       |                                         | -      |        |         |       |     |
| 19       |                                         |        |        |         | -     |     |
| 20       |                                         |        |        |         |       |     |
| 21       |                                         |        |        |         |       |     |
| 22       |                                         |        |        |         |       |     |
| 23       |                                         |        |        |         | -     |     |
| 24       |                                         |        |        |         |       |     |
| 25       |                                         |        |        |         |       |     |
| 26       |                                         |        |        |         |       |     |
| 27       |                                         |        |        |         |       |     |
| 28       |                                         |        |        |         |       |     |
| 29       |                                         |        |        |         |       |     |
| 30       |                                         |        |        |         |       |     |

SMC1 (TOL) = Toluene-d8 (84-138) SMC2 (BFB) = Bromofluorobenzene (59-113) SMC3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

# Column to be used to flag recovery values

* Values outside of contract required QC limits

page 1 of 1

#### 3B SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

| COMPOUND           | SPIKE<br>ADDED<br>(ug/Kg) | SAMPLE<br>CONCENTRATION<br>(ug/Kg) | MS<br>CONCENTRATION<br>(ug/Kg) | MS | QC<br>LIMI :<br>REC= |
|--------------------|---------------------------|------------------------------------|--------------------------------|----|----------------------|
| 1,1-Dichloroethene | 50                        | 0                                  | 45                             | 90 | 59-172               |
| Trichloroethene    | 50                        | 0                                  | 45                             | 90 | 62-1 7               |
| Benzene            | 50                        | 0                                  | 47                             | 94 | 66-142               |
| Toluene            | 50                        | 0                                  | 48                             | 96 | 59-132               |
| Chlorobenzene      | 50                        | 0                                  | 49                             | 98 | 60-1 3               |

| СОМЬОПИР                                                         | SPIKE<br>ADDED<br>(ug/Kg)  | MSD<br>CONCENTRATION<br>(ug/Kg) | MSD<br>%<br>REC #           | %<br>RPD #                 | QC L                       | IMITS-                                       |
|------------------------------------------------------------------|----------------------------|---------------------------------|-----------------------------|----------------------------|----------------------------|----------------------------------------------|
| 1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene | 50<br>50<br>50<br>50<br>50 | 46<br>46<br>48<br>49<br>51      | 92<br>92<br>96<br>98<br>102 | 2<br>2<br>2<br>2<br>2<br>4 | 22<br>24<br>21<br>21<br>21 | 59-1 3<br>62-137<br>66-142<br>59-1 3<br>60-1 |

# Column to be used to flag recovery and RPD values with an asterisk

| * | Values | outside | of 0 | C $1i$ | imits |
|---|--------|---------|------|--------|-------|
|---|--------|---------|------|--------|-------|

RPD: 0 out of 5 outside limits Spike Recovery: 0 out of 10 outside limits

| COMMENTS: |  |
|-----------|--|
|           |  |

V-2

#### 3B SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

| Lab Name: | ACCREDITE   | D LABS, INC.      | Contract:  |             |
|-----------|-------------|-------------------|------------|-------------|
| Lab Code: | 11109       | Case No.: 1933    | SAS No.:   | SDG No.:    |
| Matrix Sp | ike - EPA : | Sample No.: 16-20 | Level: (le | ow/med) MED |

| COMPOUND           | SPIKE   | SAMPLE        | MS            | MS    | QC.    |
|--------------------|---------|---------------|---------------|-------|--------|
|                    | ADDED   | CONCENTRATION | CONCENTRATION | %     | LIMITS |
|                    | (ug/Kg) | (ug/Kg)       | (ug/Kg)       | REC # | REC.   |
| 1,1-Dichloroethene | 50      | 0             | 43            | 86    | 59-172 |
|                    | 50      | 79            | 120           | 82    | 62-137 |
|                    | 50      | 0             | 47            | 94    | 66-142 |
|                    | 50      | 1             | 48            | 93    | 59-139 |
|                    | 50      | 0             | 48            | 95    | 60-133 |

| COMPOUND                                                         | SPIKE<br>ADDED<br>(ug/Kg) | MSD<br>CONCENTRATION<br>(ug/Kg) | MSD<br>%<br>REC # | %<br>RPD # | . ~ | IMITS REC. |
|------------------------------------------------------------------|---------------------------|---------------------------------|-------------------|------------|-----|------------|
| 1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene | 50                        | 45                              | 90                | 5          | 22  | 59-172     |
|                                                                  | 50                        | 140                             | 122               | 39 *       | 24  | 62-137     |
|                                                                  | 50                        | 48                              | 96                | 2          | 21  | 66-142     |
|                                                                  | 50                        | 50                              | 97                | 4          | 21  | 59-139     |
|                                                                  | 50                        | 49                              | 97                | 2          | 21  | 60-133     |

 $\ensuremath{\textit{\#}}$  Column to be used to flag recovery and RPD values with an asterisk

| * Values outside of OC limit | S |
|------------------------------|---|
|------------------------------|---|

| • |            | 5 outside limits<br>O out of 10 outside limits |  |
|---|------------|------------------------------------------------|--|
|   | COMMENTS • |                                                |  |

# 4 A

| EPA | SAMPLE | NC |
|-----|--------|----|
|-----|--------|----|

|                           | VOLATILE METHOD BLAN | K SUMMARY        | EFA DAMI DE IN |
|---------------------------|----------------------|------------------|----------------|
| Lab Name: ACCREDITED LABS | , INC. Contract      | :                | VBLKC79        |
| Lab Code: 11109 Case      | No.: SAS No.         | : SDG No         | o.: -          |
| Lab File ID: >C0706       |                      | Lab Sample ID: V | VBLKC79        |
| Date Analyzed: 10/        | 07/98                | Time Analyzed:   | 14:13          |
| GC Column: RTX-502 ID:    | 0.53 (mm)            | Heated Purge: (Y | Y/N) Y         |
| Instrument ID: HP         | 5970C                |                  | •              |
|                           |                      |                  |                |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

|    | EPA        | LAB       | LAB     | TIME     |
|----|------------|-----------|---------|----------|
|    | SAMPLE NO. | SAMPLE ID | FILE ID | ANALYZED |
| 01 | HBLK       | HBLK      | >C0707  | 15:04    |
| 02 | BLANKMS    | BLANKMS   | >C0711  | 17:46    |
| 03 | BLANKMSD   | BLANKMSD  | >C0712  | 18:32    |
| 04 |            |           |         |          |
| 05 |            |           |         |          |
| 06 |            |           |         |          |
| 07 |            |           |         |          |
| 08 |            |           |         |          |
| 09 |            |           |         |          |
| 10 |            |           |         |          |
| 11 |            |           |         |          |
| 12 |            |           |         |          |
| 13 |            |           |         |          |
| 14 |            |           |         |          |
| 15 |            |           |         |          |
| 16 |            |           |         |          |
| 17 |            |           |         |          |
| 18 |            |           |         |          |
| 19 |            |           |         |          |
| 20 |            |           |         |          |
| 21 |            |           |         |          |
| 22 |            |           |         |          |
| 23 |            |           |         |          |
| 24 |            |           |         |          |
| 25 |            |           |         |          |
| 26 |            |           |         |          |
| 27 |            |           |         |          |
| 28 |            |           |         |          |
| 29 |            |           |         |          |
| 30 |            | -         |         | i        |

| COMMENTS: |  |
|-----------|--|
|           |  |

page 1 of 1

V-4

OLMO 🗺

#### 4A VOLATILE METHOD BLANK SUMMARY

| EPA  | C | λмої     | T. | NIC  |
|------|---|----------|----|------|
| LIFA | 0 | MI'I F 1 | 11 | 1110 |

|   | Lab Name: ACCREDITED L | ABS, INC. Con   | ntract:       | VBLKC81   |
|---|------------------------|-----------------|---------------|-----------|
|   | Lab Code: 11109 Ca     | se No.: 1933 SA | AS No.: SDG   | No.:      |
|   | Lab File ID: >C07      | 34              | Lab Sample ID | : VBLKC81 |
| - | Date Analyzed:         | 10/09/98        | Time Analyzed | : 09:31   |
|   | GC Column: RTX-502     | D: 0.53(mm)     | Heated Purge: | (Y/N) Y   |
|   | Instrument ID:         | HP5970C         |               |           |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

|                                  | EPA<br>SAMPLE NO.                      | LAB<br>SAMPLE ID                             | LAB<br>FILE ID                       | TIME<br>ANALYZED                 |
|----------------------------------|----------------------------------------|----------------------------------------------|--------------------------------------|----------------------------------|
| 01<br>02<br>03<br>04<br>05<br>06 | HBLK01<br>16-20<br>16-20MS<br>16-20MSD | HBLK01<br>9811260<br>9811260MS<br>9811260MSD | >C0735<br>>C0738<br>>C0741<br>>C0742 | 10:23<br>12:20<br>15:10<br>15:57 |
| 07<br>08<br>09<br>10<br>11       |                                        |                                              |                                      |                                  |
| 13<br>14<br>15<br>16<br>17<br>18 |                                        |                                              |                                      |                                  |
| 19<br>20<br>21<br>22<br>23<br>24 |                                        |                                              |                                      |                                  |
| 25<br>26<br>27<br>28<br>29<br>30 |                                        |                                              |                                      |                                  |

|    | 2        | 29 = |  |  |  |
|----|----------|------|--|--|--|
| CC | OMMENTS: |      |  |  |  |
| pa | age 1 of | f 1  |  |  |  |

V-5

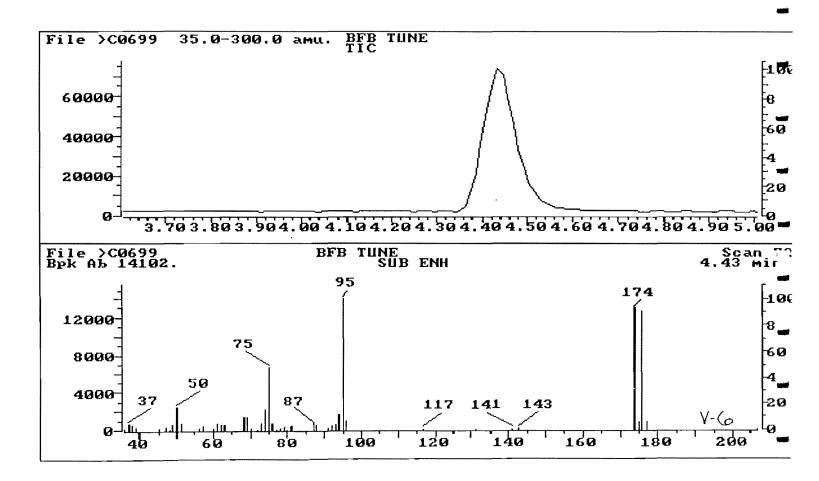
#### GC/MS PERFORMANCE STANDARD

#### Bromofluorobenzene (BFB)

| m/z        | Ion Abundance<br>Criteria          | % Relativ<br>Base<br>Peak | Appropriate Peak | Status | =   |
|------------|------------------------------------|---------------------------|------------------|--------|-----|
| 50         | 15-40% of mass 95                  | 17.80                     | 17.80            | Ok     |     |
| 75         | 30-60% of mass 95                  | 46.91                     | 46.91            | Ok     |     |
| <b>9</b> 5 | Base peak, 100% relative abundance | 100.00                    | 100.00           | Ok     |     |
| 96         | 5-9% of mass 95                    | 6.75                      | 6.75             | Ok     |     |
| 173        | Less than 2% of mass 174           | 0.00                      | 0.00             | Ok     |     |
| 174        | 50-120% of mass 95                 | <b>92.1</b> 9             | 92.19            | Ok     |     |
| 175        | 5-9% of mass 174                   | 6.47                      | 7.02             | Ok     | 100 |
| 176        | 95-101% of mass 174                | 90.29                     | 97.94            | Ok     |     |
| 177        | 5-9% of mass 176                   | 5.97                      | 6.62             | Ok     |     |
|            |                                    |                           |                  |        |     |

Injection Date: 10/07/98 Injection Time: 09:18 Data File: >C0699

Scan: 72



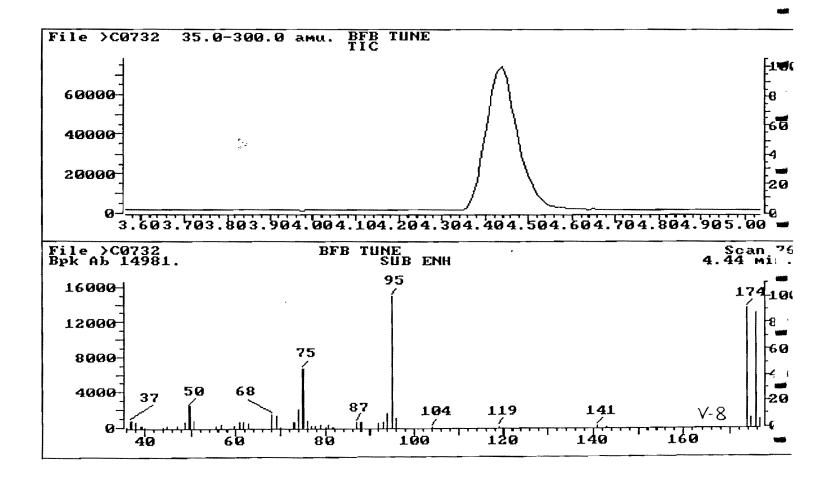
| File: > | C0699 S | can #: | 72     | Retn. | time:  | 4.43  |         | •      |         |
|---------|---------|--------|--------|-------|--------|-------|---------|--------|---------|
| m/z     | Int.    | m/z    | Int.   | m/z   | Int.   | m/z   | Int.    | m/z    | Int.    |
| 35.95   | 124.7   | 55.95  | 196.7  | 71.95 | 53.7   | 80.85 | 349.3   | 116.80 | 61.0    |
| 36.95   | 646.7   | 57.05  | 350.3  | 72.95 | 609.0  | 86.95 | 597.0   | 130.90 | 76.3    |
| 38.05   | 562.7   | 60.05  | 115.0  | 73.95 | 2117.0 | 87.95 | 531.7   | 140.90 | 88.3    |
| 38.95   | 247.3   | 61.05  | 607.0  | 74.95 | 6615.0 | 90.95 | 96.3    | 142.80 | 103.7   |
| 44.95   | 142.3   | 62.05  | 555.0  | 75.95 | 571.3  | 91.95 | 328.0   | 173.90 | 13000.7 |
| 46.95   | 240.7   | 62.95  | 446.7  | 76.95 | 67.0   | 93.05 | 547.7   | 174.90 | 912.3   |
| 47.85   | 78.0    | 67.95  | 1330.0 | 78.05 | 92.3   | 93.95 | 1635.0  | 175.90 | 12733.0 |
| 48.95   | 531.7   | 68.95  | 1295.3 | 78.85 | 321.7  | 95.05 | 14102.3 | 176.90 | 842.3   |
| 49.95   | 2510.3  | 69.95  | 99.0   | 79.95 | 89.7   | 96.05 | 952.3   | 207.00 | 11.3    |
| 51.05   | 757.3   |        |        |       |        |       |         |        |         |

#### GC/MS PERFORMANCE STANDARD

#### Bromofluorobenzene (BFB)

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|------------------|
| k                |
| k                |
| k 🕳              |
| k                |
| k                |
| k                |
| k 💌              |
| k                |
| k                |
| k<br>k<br>k<br>k |

Injection Date: 10/09/98 Injection Time: 08:23 Data File: >C0732 Scan: 76



>C0732 BFB TUNE 76 SUB ENH

File: >C0732 Scan #: 76 Retn. time: 4.44

| m/z   | Int.  | m/z   | Int.   | m/z   | Int.   | m/z   | Int.    | m/z    | Int.    |
|-------|-------|-------|--------|-------|--------|-------|---------|--------|---------|
|       |       | 40.05 |        |       | 1060   |       |         |        | 1000    |
| 35.95 | 81.3  | 49.95 | 2412.0 | 68.95 | 1263.0 | 79.95 | 92.3    | 95.95  | 1009.3  |
| 36.95 | 682.0 | 50.95 | 780.3  | 69.95 | 69.3   | 80.85 | 311.7   | 103.85 | 20.3    |
| 37.95 | 529.0 | 55.95 | 203.7  | 72.95 | 529.3  | 81.85 | 78.7    | 118.80 | 42.3    |
| 39.05 | 210.7 | 56.95 | 344.0  | 73.95 | 2079.0 | 86.95 | 585.0   | 140.90 | 95.3    |
| 39.85 | 19.0  | 59.95 | 120.7  | 74.95 | 6650.7 | 87.95 | 572.0   | 142.90 | 51.3    |
| 43.95 | 6.7   | 60.95 | 576.0  | 75.95 | 601.7  | 91.95 | 359.7   | 173.90 | 13552.3 |
| 44.95 | 125.0 | 61.95 | 524.0  | 76.95 | 115.0  | 92.95 | 558.7   | 174.90 | 992.3   |
| 47.05 | 207.3 | 62.95 | 396.7  | 77.85 | 116.0  | 93.95 | 1549.0  | 175.90 | 13148.7 |
| 48.95 | 536.0 | 67.95 | 1353.7 | 78.95 | 312.0  | 94.95 | 14981.0 | 176.90 | 877.0   |

#### A8 VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ACCREDITED LABS, INC. Contract:

Case No.: Lab Code: 11109 SAS No.: ____ SDG No.:

Lab File ID (Standard): >C0700 Date Analyzed: 10/07/98

Instrument ID: HP5970BC Time Analyzed: 09:37

GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) Y

| 1        |                 | IS1(BCM)       |                                         | IS2(DFB)         |                | IS3(CBZ)         |                |
|----------|-----------------|----------------|-----------------------------------------|------------------|----------------|------------------|----------------|
|          |                 | AREA #         | RT #                                    | AREA #           | RT #           | AREA #           | RT #           |
|          | 12 HOUR STD     | 93560          | 15.82                                   | 472540           | 18.14          | 394409           | 25.40          |
|          | UPPER LIMIT     | 187120         | 16.32                                   | 945080           | 18.64          | 788818           | 25.90          |
|          | LOWER LIMIT     | 46780          | 15.32                                   | 236270           | 17.64          | 197205           | 24.90          |
|          | EPA SAMPLE      |                |                                         | <b>=====</b>     | <del></del>    |                  |                |
|          | NO.             |                |                                         |                  |                |                  |                |
|          |                 |                |                                         |                  |                | ========         | ======         |
| 01 02    | VBLKC79<br>HBLK | 87839<br>93265 | 15.81<br>15.82                          | 450834<br>471439 | 18.14<br>18.15 | 374897<br>388435 | 25.44          |
| 02       | BLANKMS         | 88514          | 15.82                                   | 462471           | 18.13          | 382705           | 25.40<br>25.39 |
| 04       | BLANKMSD        | 81189          | 15.82                                   | 426106           | 18.15          | 352303           | 25.40          |
| 05       |                 |                |                                         |                  |                |                  |                |
| 06<br>07 |                 |                |                                         |                  |                |                  |                |
| 08       |                 |                | *************************************** |                  |                |                  |                |
| 09       | ×               |                |                                         |                  |                |                  |                |
| 10       |                 |                |                                         |                  |                |                  |                |
| 11<br>12 |                 |                |                                         |                  |                |                  |                |
| 13       |                 |                |                                         |                  |                |                  |                |
| 14       |                 |                |                                         |                  |                |                  |                |
| 15<br>16 |                 |                |                                         |                  |                |                  |                |
| 17       |                 |                |                                         |                  |                |                  |                |
| 18       |                 |                |                                         |                  |                |                  |                |
| 19<br>20 |                 | ******         |                                         |                  |                |                  |                |
| 21       |                 |                |                                         |                  |                | -                |                |
| 22       |                 |                |                                         |                  |                |                  |                |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

page 1 of 1

V-IO

OLM03

#### 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ACCREDITED LABS, INC. Contract: _____

Lab File ID (Standard): >C0733 Date Analyzed: 10/09/98

Instrument ID: HP5970BC Time Analyzed: 08:43

GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) Y

| 1        |             | IS1(BCM)                              |                | IS2 (DFB)        |                | IS3 (CBZ)        |        |
|----------|-------------|---------------------------------------|----------------|------------------|----------------|------------------|--------|
| j        |             | AREA #                                | RT #           | AREA #           | RT #           | AREA #           | RT #   |
| İ        |             |                                       | ======         |                  |                |                  | ====== |
| l        | 12 HOUR STD | 81517                                 | 15.76          | 428026           | 18.13          | 353989           | 25.38  |
| - 1      | UPPER LIMIT | 163034<br>40759                       | 16.26<br>15.26 | 856052<br>214013 | 18.63<br>17.63 | 707978<br>176994 | 25.88  |
| - 1      | TOMER LIMIT | 40/59                                 | 15.26          | 214013           | 17.63          | 1/6994           | 24.88  |
|          | EPA SAMPLE  |                                       |                |                  |                |                  |        |
| - 1      | NO.         |                                       |                |                  |                |                  |        |
|          |             |                                       |                |                  |                |                  |        |
| 01       | VBLKC81     | 70904                                 | 15.79          | 388671           | 18.11          | 3 <b>1</b> 8283  | 25.41  |
| 02       | HBLK01      | 82645                                 | 15.77          | 432880           | 18.14          | 351982           | 25.39  |
| 03       | 16-20       | 75735                                 | 15.81          | 420178           | 18.14          | 342079           | 25.39  |
| 04<br>05 | 16-20MS     | 80006                                 | 15.81<br>15.81 | 444186           | 18.14<br>18.14 | 359951           | 25.39  |
| 06       | 16-20MSD    | 76660                                 | 12.81          | 429683           | 18.14          | 345802           | 25.39  |
| 07       |             |                                       |                |                  | -              |                  |        |
| 08       |             | · · · · · · · · · · · · · · · · · · · |                |                  |                |                  |        |
| 09       |             |                                       |                |                  |                |                  |        |
| 10       |             |                                       |                |                  |                |                  |        |
| 11       |             |                                       |                |                  |                |                  |        |
| 12       |             |                                       |                |                  |                |                  |        |
| 13       |             |                                       |                |                  |                |                  |        |
| 15       |             |                                       |                |                  |                |                  |        |
| 16       |             |                                       |                |                  |                |                  |        |
| 17       |             |                                       |                |                  |                |                  |        |
| 18       |             |                                       |                |                  |                |                  |        |
| 19       |             |                                       |                |                  |                |                  |        |
| 20       |             |                                       |                |                  |                |                  |        |
| 21       |             |                                       |                |                  |                |                  |        |
| 22       |             |                                       | l              |                  |                |                  |        |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

page 1 of 1

### **ACCREDITED LABORATORIES**

# GCMS-VOLATILES INSTRUMENT DETECTION LIMITS (IDL)

Instrument: GCMS

Instrument ID: HP5970BD

Column : RTX502.2 (105m x 0.53mm ID x 3.0um film thickness)

Date Analysed: 01/07/98 Analyst: William Llorente

| ANALYTES                  | REP 1 | REP 2 | REP 3 | AVERAGE | STD DEV | MDL      |
|---------------------------|-------|-------|-------|---------|---------|----------|
| Chloromethane             | 9.12  | 10.85 | 7.38  | 9.1167  | 1.4166  | 4.8349   |
| Bromomethane              | 13.04 | 13.73 | 11.38 | 12.7167 | 0.9862  | 3.3661   |
| Vinyì chloride            | 10.41 | 11.60 | 9.04  | 10.3500 | 1.0460  | 3.5699   |
| Chloroethane              | 9.57  | 10.88 | 8.64  | 9.6967  | 0.9189  | 3.1360 · |
| Methylene chloride        | 11.90 | 11.37 | 10.94 | 11.4033 | 0.3926  | 1.3400   |
| Acetone                   | 14.49 | 13.76 | 16.41 | 14.8867 | 1.1176  | 3.8145   |
| Carbon disulfide          | 8.71  | 10.65 | 7.18  | 8.8467  | 1.4199  | 4.8462   |
| 1,1-Dichioroethene        | 10.69 | 9.96  | 9.23  | 9.9600  | 0.5960  | 2.0343   |
| 1,1-Dichloroethane        | 11.00 | 10.90 | 9,82  | 10.5733 | 0.5342  | 1.8234   |
| cis-1,2-Dichloroethene    | 11.21 | 10.65 | 9.73  | 10.5300 | 0.6101  | 2.0824   |
| trans-1,2-Dichloroethene  | 10.59 | 9.90  | 9.42  | 9.9700  | 0.4802  | 1.6390   |
| Chloroform                | 11.33 | 11.08 | 10.22 | 10.8767 | 0.4754  | 1.6226   |
| 1,2-Dichioroethane        | 11.93 | 11.03 | 10.64 | 11.2000 | 0.5402  | 1.8437   |
| 2-Butanone                | 11.48 | 11.47 | 12.30 | 11.7500 | 0.3889  | 1.3274   |
| 1,1,1-Trichloroethane     | 11.41 | 11.33 | 10.01 | 10.9167 | 0.6419  | 2.1909   |
| Carbon tetrachloride      | 11.03 | 10.78 | 8.71  | 10.1733 | 1.0398  | 3.5487   |
| Bromodichloromethane      | 11.10 | 10.64 | 9.48  | 10.4067 | 0.6816  | 2.3264   |
| 1,2-Dichioropropane       | 11.72 | 11.02 | 10.36 | 11.0333 | 0.5553  | 1.8952   |
| cis-1,3-Dichloropropene   | 10.73 | 10.67 | 9.57  | 10.3233 | 0.5332  | 1.8200   |
| _Trichloroethene          | 11.69 | 10.74 | 10.21 | 10.8800 | 0.6123  | 2.0897   |
| Benzene                   | 11.38 | 11.08 | 10.10 | 10.8533 | 0.5466  | 1.8655   |
| PDibromochloromethane     | 11.11 | 10.70 | 9.23  | 10.3467 | 0.8071  | 2.7548   |
| 1,1,2-Trichloroethane     | 11.31 | 11.35 | 10.74 | 11.1333 | 0.2786  | 0.9509   |
| trans-1,3-Dichloropropene | 9.06  | 9.45  | 8.84  | 9.1167  | 0.2522  | 0.8609   |
|                           | 1 1   | 1 1   | 1     | 1       | 1 1     | 1        |

| Bromoform                 | 11.56 | 10.28 | 8.89  | 10.2433 | 1.0903 | 3.7213   |
|---------------------------|-------|-------|-------|---------|--------|----------|
| 2-Hexanone                | 12.29 | 11.33 | 11.28 | 11.6333 | 0.4648 | 1.5863   |
| 4-Methyl-2-pentanone      | 12.30 | 11.22 | 12.37 | 11.9633 | 0.5264 | 1.7966   |
| Tetrachloroethene         | 12.69 | 10.79 | 10.83 | 11.4367 | 0.8864 | 3.0253   |
| 1,1,2,2-Tetrachloroethane | 12.86 | 11.00 | 11.16 | 11.6733 | 0.8416 | 2.8725   |
| Toluene                   | 11.67 | 10.95 | 10.44 | 11.0200 | 0.5046 | 1.7221   |
| Chlorobenzene             | 11.87 | 11.03 | 10.25 | 11.0500 | 0.6615 | 2.2577   |
| Ethylbenzene              | 12.15 | 10.55 | 11.14 | 11.2800 | 0.6607 | 2.2548 ' |
| Styrene                   | 11.62 | 10.51 | 10.28 | 10.8033 | 0.5851 | 1.9968   |
| m,p-Xylene                | 12.33 | 11.71 | 10.45 | 11.4967 | 0.7822 | 2.6696   |
| o-Xylene                  | 12.44 | 10.83 | 10.34 | 11.2033 | 0.8970 | 3.0616   |

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#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

VOLATILE ORGANICS ANALYSIS DATA SHEET

16-20

Lab Name: ACCREDITED LABS, INC. Contract:

Matrix: (soil/water) SOIL Lab Sample ID: 9811260

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >C0738

Level: (low/med) MED Date Received: 10/01/98

% Moisture: not dec. 9 Date Analyzed: 10/09/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 250 (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

|                                     | <del></del> |
|-------------------------------------|-------------|
| 74-87-3Chloromethane                | 220 U       |
| 74-83-9Bromomethane                 | 220 0       |
| 75-01-4Vinyl Chloride               | 220 U       |
| 75-00-3Chloroethane                 | 220 U       |
| 75-09-2Methylene Chloride           | 93 J B      |
| 67-64-1Acetone                      | 380         |
| 75-15-0Carbon Disulfide             | 220 U       |
| 75-35-41,1-Dichloroethene           | 220 U       |
| 75-34-31,1-Dichloroethane           | 220         |
| 540-59-01,2-Dichloroethene (total)  | 30 J        |
| 67-66-3Chloroform                   | 220   0     |
| 107-06-21,2-Dichloroethane          | 220         |
| 78-93-32-Butanone                   | 340         |
| 71-55-61,1,1-Trichloroethane        | 220 U       |
| 56-23-5Carbon Tetrachloride         | 220 U       |
| 75-27-4Bromodichloromethane         | 220         |
| 78-87-51,2-Dichloropropane          | 220 U       |
| 10061-01-5cis-1,3-Dichloropropene   | 220 U       |
| 79-01-6Trichloroethene              | 1700 -      |
| 124-48-1Dibromochloromethane        | 220 U       |
| 79-00-51,1,2-Trichloroethane        | 220 U       |
| 71-43-2Benzene                      | 220 U       |
| 10061-02-6trans-1,3-Dichloropropene | 220 U       |
| 75-25-2Bromoform                    | 220 TU      |
| 108-10-14-Methyl-2-Pentanone        | 220 U       |
| 591-78-62-Hexanone                  | 220         |
| 127-18-4Tetrachloroethene           | 81 J        |
| 79-34-51,1,2,2-Tetrachloroethane    | 220 - 0     |
| 108-88-3Toluene                     | 30 J        |
| 108-90-7Chlorobenzene               | 220   0     |
| 100-41-4Ethylbenzene                | 220 U       |
| 100-42-5Styrene                     | 220         |
| 1330-20-7Xylene (total)             | 220 U       |
| *                                   |             |
|                                     | I!          |

EPA SAMPLE !

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

| EPA | SAMPLE | NC |
|-----|--------|----|
|-----|--------|----|

|             |            |       |      |           | 16-20 |
|-------------|------------|-------|------|-----------|-------|
| Lab Name: A | ACCREDITED | LABS, | INC. | Contract: |       |

SDG No.:

Lab Sample ID: 9811260 Matrix: (soil/water) SOIL

Lab File ID: Sample wt/vol: (q/mL) G >C0738 5.0

Level: (low/med) MED Date Received: 10/01/98

% Moisture: not dec. Date Analyzed: 10/09/98

GC Column: RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 Soil Aliquot Volume: 250 (uL) (uL)

CONCENTRATION UNITS:

Number TICs found: 15 (ug/L or ug/Kg) UG/KG

| CAS NUMBER                                 | COMPOUND NAME                                                                                                        | RT                                        | EST. CONC.                       | Q                |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|------------------|
| 1.<br>2. 111842<br>3.<br>4.<br>5. 15869940 | Unknown Hydrocarbon<br>Nonane (8CI9CI)<br>Unknown Hydrocarbon<br>Unknown Hydrocarbon<br>Octane, 3,6-dimethyl- (8CI9C | 23.79<br>25.11<br>26.21<br>27.08<br>27.49 | 180<br>620<br>370<br>1400<br>350 | N<br>N<br>N<br>N |
| 6.<br>7.<br>8.<br>9. 620144                | Unknown Hydrocarbon Unknown Hydrocarbon Unknown Hydrocarbon Benzene, 1-ethyl-3-methyl- (                             | 28.58<br>28.95<br>29.63                   | 400<br>260<br>180<br>770         | N<br>N<br>N<br>N |
| 10.<br>11.<br>12. 5989275<br>13. 1120214   | Unknown Hydrocarbon Unknown Aromatic D-Limonene Undecane (8CI9CI)                                                    | 30.32<br>30.50<br>30.64<br>31.37          | 770<br>240<br>310<br>480         | N<br>N<br>N      |
| 14. 1074437<br>15. 1758889<br>16. 17.      | Benzene, 1-methyl-3-propyl-<br>Benzene, 2-ethyl-1,4-dimethy                                                          | 31.64                                     | 460<br>750                       | N<br>N           |
| 19.<br>20.<br>21.                          |                                                                                                                      |                                           |                                  |                  |
| 23.<br>24.<br>25.                          |                                                                                                                      |                                           |                                  |                  |
| 27.<br>28.<br>29.                          |                                                                                                                      |                                           |                                  |                  |
| 30                                         |                                                                                                                      |                                           |                                  |                  |

Data File: :000338:300 Duxer Output File: 60748::01

Misc: 1933 - 10/09/98 10/01/98 5.0 1.0 M 5000 250

Id File: 189522::50

Title: Arresited Lama VSA ID file - RTX 582.2 105m c.55mm 3.0um

bast Calibration: 98/900 09:60

Operator III SILLIAM

Ögant Timet - 981609 ly:54 Injekted at: 981889 l7:70

#### QUANT REPORT

Operator ID: WILLIAM Obant Revi b - Opant Time: 981009 12050 stick seedas its assessini margur Filet TRAZAR/19T

Dilution Wartoo: + ordina

**暑内加**のに 30多年またら - 1. もりとぎむ

Mimor tage (Craws and Spiritus La Colon Base) March

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|               | Сопрония                                                        | 8.7.    | ា្នកេស្ត | Area      | មិនស្រ   | $0\pi\pm\xi=$ | ٠,            |
|---------------|-----------------------------------------------------------------|---------|----------|-----------|----------|---------------|---------------|
|               | 6 Browse & for omer bane                                        | 15.81   | 168      | 75235M    | to an    |               | - · "         |
|               |                                                                 |         |          |           | ៦មុខផ្ស  |               |               |
| 6)            | Methylene Chicride                                              | 11.25   | ી વર્શ   | \$#C75    | ٤.23     | 38 ½ į        | 25 x :        |
| 7.            | ស៊ី€`>" ពេលម                                                    | 9.52    | 7.10     | 为自我原      | 美差,益产    | មាន្វ!        | 99            |
| <u></u> (1)   | ciz~1.2~Dichtoro≄thene                                          | 14.99   | 236      | 3514      | 1.35     | 维度不佳          | <b>€</b> ∳ £4 |
| 143           | 1.2-Dichlerestbase-d4                                           | 81.74   | 278      | <u> </u>  | 50 . A S | tig/l         | 7.            |
| (5)           | as.4-Diffuorobenzame                                            | 18.14   | 300      | 420178    | 50.00    | 08/1          | 33            |
| 1.23          | 2 · Bytamone                                                    | 14.58   | 221      | હાલ કેટ જ | 15.41    | 4871          | ., :          |
| <b>₹</b> /%3  | Trichtorcethope                                                 | 18.€3   | 法重任      | 51(58)    | 24.31    | 0011          | : (           |
| *****         | ं की - क्या कहा कर कर कर है है है है है है है है है है है है है | 25.33   | 有发现      | 54 70 79  | 50.00    | 2012          | 67,           |
| + 2 %         | หื⇔ปรละที่เยียยยย่องกับ                                         | 23 30   | 8.1.7    | 4 3 5 1 ± | 3.30     | 1150 / .      | 9.1           |
| <b>₩</b> 1977 | Taides: AK                                                      | 11.18   | 379      | 在主文的数据    | 49,64    | 3298          | : ':          |
| 150           | Tulipene                                                        | 33.33   | 1813     | 4.256.2   | 1.39     | ម <b>ូ</b> វ១ | ٠: ::         |
| 3.3.3         | Kromerinorobenzene                                              | 28 . 65 | 57.4     | 324718    | 42.71    | saint t       | 45.0          |

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Data File: >C07:8::Cl Quant Output File: \C0738::OT -

Name: 981:260 16-20

Mise: 1933 | 10/09/98 | 10/01/98 5.0 | 1.0 | M 5000 | 250 |

Ouant Time: 98:009 12:54 Quant ID File: IDPS22::50 Injected at: 98:009 12:20 Last Calibration: 98:009 09:40

Compound No: (ISTD)

Compound Name: Bromochloromethane

Scan Number: 248

Retention Time: 15.81 min.

Quant Ion: 128.0 Area: 75735M

Concentration: 50.00 ug/l

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Name' 981:300 to-20

Milent 1932 | 10/09/48 | 10/01/49 | 5.0 | 6.0 | M Stro | 250 Quant Time: Shidos | 2:54 | Quant TG File: Jambalos College Injected art 98/009 | 10:28 | Last Calibration: 98/008 | College

Compound No: 6

Compound Mano: Methylene Chioride

Scan Number: 148

Retention Trap: 11.35 min.

Q∪9⊓t ion: 84.Q Area: 19075

Concentration: +.23 ug/1

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Kerontion Time: 4-52 min.

Owant lon: 43.0 Area: 5588

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. . . .  $600 \times 3$ 26. 

Para (110) 200734::0, Swant Gurput Film: Cof36::07 Name: 481:260 In-26

Miso: 1933 - iorogram serecins 5.0 J.O. M. 5000 J.B.

vont Time: 981009 12:54 Quant Ib Filo: 109022::50

Injected at: 96:009 \$2:20 Last Calibration: 98:009 09:40

Compagni No: 14

Compound Market 1,2.5(chlospethane-d4)

Scar Number: 278

Recention Times (7).8 min.

Ouant lon: \$5.0 Area: 102817

Concentration: 50.85 og/)

q-value: 75

- General Section Filter (Confidence) Data %ile: 2002/08:2001 Wasse: 4211263 | 16...0 **職系があり、1933年 - 「1973年/月界 ヨロアステアロート、ロー・ミノター - 杉 ちゅのロー えちじ** Quant Time: 98:000 (2:54 Ouzer Th File: 10FC22:10f Injected at: 98:000 (2:50 Last Calleration: 98:000 (9:40 Composed Not in (1070) Compound შითია ("4-წქნეციგებადეგდეტ Scan Mumber: 299 Betention Time: 18.14 min. Quant lon: 110.U Area: 420178 Concentration: 50.00 ug/1 q~value: 39

2549Keer 1 (55) 11 (24) The Experience of the Property of the Control of the Property of the Control of the Property of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of ( · · · · Companyers of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con 

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Miser 3932 | 19709/98 10701798 5.0 | 1.0 | M 5000 250

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 401009 12:54
 Opens 10 File: 10P\$22::00

 Injerted At: 461009 12:20
 \$300 fillbration 981009 89140

Compound Not 17

Compound Name: 2-Paranone

Scan Number: 774

Retention Time: \$4.5% #86.

Quant Ion: 43.5 Atter: 9986

Concentration: 15.4% ug/f

g-value: 95

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Record Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the

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Mises 1935 - 19709/98 30/03/98 50/3-198 - 128 - E 5008 - 250

Ouant Time: 98:009 12:54 Ouant IV File: 109327::50
Injected at: 481009 12:20 Last Calibration: 481009 09:40

Composed Not 25 (ISTD)

Compound Mann: Chicatohonzene-dh-

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Retrotion Times 30.39 min.

Quant lon: 117.0 Ares: 342079

Concentration: 50.00 sg/s

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Compassed Mare: Totrachlaroctbase

Sess Number: Al?

Retention Time: 23.52 min.

Obant lon: 154.0 Area: (3315

Concentration: 3.70 ug/;

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Compaged ដែក៖ 34

Compaggid 報告 200 Tolurus - 68.

Span Numbers 379

Recention Time: 21.75 min.

Ousat Ion: 98.0 Area: 411660

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Compound No: 37

Company of Minut; Bramatinarobeasene.

Scan Number: 523

Retention Time: 28.35 min.

¢φαρα Σφρ: 95.0 Area. 224318

Concentration: 46.97 ug/i

n-value: 84

Tomple: \$611260 (6-20 Uperator: Wildiam RFG, GFF, 10/49/48 1/:20 Misse : 10/49/48 1/:20 Misse : 10/49/48 1/:20

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## ● 多ち、食主 さかに、在一部合新、食器としてまた。

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| · ři             | 30.37        | 多為益              | ୯୫%         | 5 (4 )          | 64535 <u>5</u>                      | 9 & 1, B 1, B      | 595725          | 14, 94                   | 6,420         |
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| 14               | 24:63        | 543              | 55.         | 554             | 26592                               | 50/212             | 220558          | 84.05                    | 2,465         |
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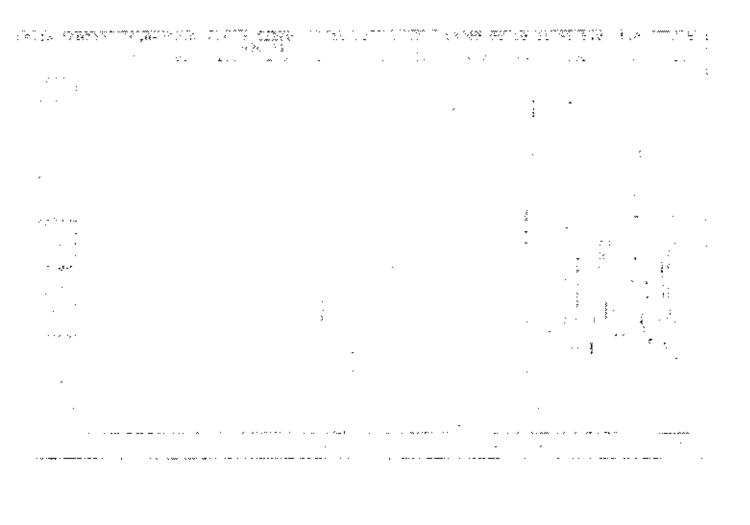
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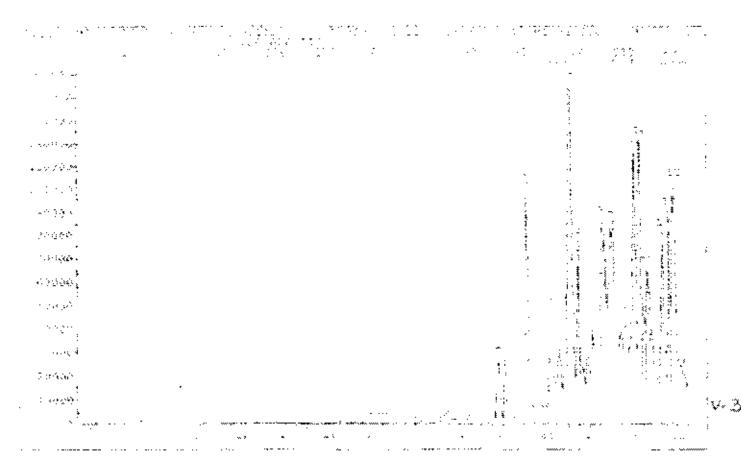
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## Correction Factor = 1.00 = 0.7 (89% a \$50)

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| MARKET NEW YORK                                     | · · • · • • · · · · · · · · · · · · · ·              |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | garan wasan sa sa sa sa sa sa sa sa sa sa sa sa sa |                                                                                                              |
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| 3. Nexens.<br>4. Undecar<br>3. Decans.              | 2.3.4-1.11<br>3.3-61most<br>65.5.7-61mo<br>2.6.7-511 |                                       | [ }<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    | 128 (************************************                                                                    |
|                                                     |                                                      | 7-dimethyl-                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    | 170 872H26                                                                                                   |
| **                                                  | : 700738<br> : } Ti                                  | Spectrum A<br>Ling opsic              | :2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 63<br>No. af ion tai                               | ten (1888 - 1888) (1888) (1888) (1888) (1888) (1888) (1888) (1888) (1888) (1888) (1888) (1888) (1888) (1888) |
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| <b>■</b><br>[. %?a                                  | 2216364                                              | 6899 NU                               | .438 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>24</b> j                                        | 43 22 <i>21</i> .                                                                                            |

9881 BMS 6.8 128 C9N2# 1. Nonase (\$6)4011 2. Decape. 2.5.b-reimmattri- (901) 184 013828 3. Nexame, Brechylanamethy, (801901) 128 89820 A. Heytane. 2.5-dimeshy:- (BClugli) 128 09870

5. Octane. 3-mathyla (801907) 428 C9#20 b. Ether, heptyl hegyl (801) 308 €13828D 2. 3-80xanone. 2.5-dimathyl- (881901) 128 C8H160

Sample tile: 200738 Spectrom #: 452 Search speed: ! Tilling option: N No. of lob ranges searched: 45 CA3 2 *FEG TILT % CON C I BLIV 谁长 Prah. CON # ROOY K 7.5 1. 940 111842 6094 数据543K 2 \$ tj B 93 ಚಚಿ

U\$2.20.000 光、大 表象監備、2011年後後を支付き、11、軍先隊で入り工場前、記録報告上的学品表案書の報じ置に しょうしだい 1. 持定交流的形式 图式的 建设施收益的第三人称形式的现象。 日本図 (食)の母さる 2. Secund. 3.6-dimoshyle (SUISCI) 142 010822 3. Modane, 3-methvi: :801901: BAZ CLONGS 4. Undecame. 5.6-dimorhyl- (891901) 184 C13H28 5. Neptane, 3-ethyl 5-methyl- (901) 142 Closs: Gotabe: 2.3.7-frimethyl- (901) 156 Ct1824 7. Octane. 3-athyl~ (SCIGCI) 142 ClOH22 Cample () to: >CO73% Spectrum #: 4/6
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| * 8 # 155<br>55 - 3 - 5 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | · ^ · · · / · · · · · · · · · · · · · · | Desir De Calendario<br>198 | . 44 4 (報集) 1 (1)                       |                                       |
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|        | GMETHWN  | ff , a    |               |      |       |
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| į .  | Cyclonentage, (2-methylpropyl) - (901)         | 美名数 安全转换表  |
|------|------------------------------------------------|------------|
| 2.   | Octano, 3.4-dimethyl- (801961)                 | 142 010872 |
| .š . | Cycloheptanoan, 3-methyl-, (k)- f9811          | 126 C8H140 |
| ÷.   | Byelomokano, (1-machviothvii: (901)            | 125 098:8  |
| ₩.   | Cyclopentame, 1-methyl-3-(1-methylectyl) (901) | 126 CAMIR  |
| fn ₊ | Cyclomexame, propyr- (801901)                  | 126 C9818  |
| 7.   | Ryclopentage, i-othyl-3-methyl: (80≸)          | 112 CBHIG  |

|    |           | >€67 <b>3</b> 8<br>1 <b>T</b> | Spectr<br>itting o |        |    | ¥5<br>X4. | ot ion | rang           | ೯೩ ತ | eacet. | eð;  | 56  | **  |
|----|-----------|-------------------------------|--------------------|--------|----|-----------|--------|----------------|------|--------|------|-----|-----|
|    | ेंहि⊊्ं . | CAS #                         | con #              | ROOT   | ĸ  | ĐΧ        | drt.o  | T # L <b>T</b> | 茗    | CDM    | c. t | a T | ¥   |
| ١. | 4 B Δ     | 3788377                       | 3449               | NESCER | 55 | *. 3      | ž      | û              | 56   | 22     | 20   | 3   | ? _ |

化原子原则 蒙古人 再数组数据数据 多二年 TREA = ASSOUTTS THREATIVE CONCERNATION IS 15.00 1. Oceane, 3.6-dimethy: - (801901) 性有的 经重用预算证 2. Mosane. %-methyl- (85190() 147 010483 3. Ostane. 2.5-dimerbyl- (801987) 142 (1012) 4. Tridecane. A mothyl- (ACI9C1) 2.900 Claiman 5. Hebtane. 3-ethyl~5-methyl- 49Cll: 142 CLONZS ó. Undecama, ó,6-dimochyt~ (αCIGCĮ). 184 613928 7. Octano. 2.3.7-trimethyl- f4Cl) 156 611924 r - Sample file: >C0738 - Sperttum #: - 504 Gearch spoed: 1 - Tilting option: N - No. of ion ranges coarched: - 40 Prob. CAS # CON # POOT K OK FFLG TILT % CON C.I R IV ₱\$. 877 |**58**04940 11280 NBO43E 68 2} 8 6 108 19 55 83

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| , 4. ***                                         | _          |                                 | 1.1            |             |        |        |         |            |                                              |                |        |
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| : '* '\$3 · (3)                                  | :          | · y · · · · · · · · · · · · · · | 77 - 77        |             |        |        |         |            |                                              | %.¢**-         |        |
| ·                                                |            |                                 | •              |             |        |        |         | ,          | •                                            |                |        |
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| ٠.                                               |            |                                 |                |             |        |        |         | • •        | _                                            |                |        |
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|                                                  |            | tva domi:                       | OF SPANTO      | 1M IS       | į      | (8.nt  |         |            |                                              |                | •      |
|                                                  |            |                                 | Mark to the    |             |        |        |         | : . *      | C10H2                                        | 7)             |        |
| i. m·Mentha<br>P. J·Pvcago                       |            |                                 |                | . 78P       | ,      |        |         |            | COMIS.                                       |                |        |
| i. A milepten                                    |            |                                 |                |             | •      |        |         |            | C+Bis                                        |                |        |
| 4. 2×#∀*anp                                      |            |                                 |                |             |        |        |         |            | Caffie                                       |                |        |
| 5. Cyclohex                                      |            |                                 |                |             | 1      |        |         |            | C10H2                                        |                |        |
| i. J. Resepte                                    |            |                                 |                |             | _      |        |         |            | CIONZ                                        |                |        |
| ? - Cyclonex                                     | ane. I-met | nvl-2-pr                        | obar- (g       | CISCI       | )      |        |         | 140        | C) 0H2                                       | J              | =      |
|                                                  |            |                                 |                |             |        |        |         |            |                                              |                |        |
| Sample file:<br>Scarch speed:                    |            |                                 |                | <b>%</b> .2 |        | s! ion | ្រែក្   | లి≏ క      | esr <b< td=""><td>ed:</td><td>4 ti</td></b<> | ed:            | 4 ti   |
| Prob.                                            | CAS #      | CON #                           | ROGT           | 8           | ΟK     | ∲F1.G  | T { },T | Ž          | CON                                          | C_I            | k "IV" |
|                                                  | 1000       | 0204                            | M 36 25 1 (13) | . 12        | 4c     | *      | ,,      |            | ٠, د                                         |                |        |
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|                                                                              | . S. 2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |
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| i. Dotabo. Brechvir (801                                                     | 401)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 142 (18#22                                           |
| J. Octabel 7.3.6-telmeth                                                     | ₩±+ /94513                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 156 () () 24                                         |
| 3. Dodwoono, 4.6-dime(h∀                                                     | 1- :9015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 58 (1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1          |
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| 5. Octabe, 2.c.b-trimeth                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 150 0111124                                          |
| 5. Nonane. 2.5-dimethys-                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 156 C118124                                          |
| 7. Reptane, 2.5.5-trimet                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 142 010822                                           |
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 4. Nonane: 2-methyl-5-propyl-(SC1)
 184 0:3828

 5. Uctano: 2.5.e-trimethyl-(SC1)
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 5. Octano: 2.3.e-trimethyl-(SC1)
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7. Hexane, 2,3.5-trimethyl- (BC19C1) 128 C9H2O

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| 2 特多思及在扩入19                                                                                                         | TREPATIVE CONC.                                                                                                                                  |                                                              | .\$                   | : a Ø                              | 010820                                                |
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| t i Historia<br>Cyclobekane,<br>Syciobekane,                                                                        | TREPATIVE CONC.                                                                                                                                  | t)<br>(1)- (401)                                             | .≨ 25±Qst             | j 4.0                              |                                                       |
| Cyclobekabe.<br>Cyclobekabe.<br>Cyclobekabe.<br>Cyclobekabe.                                                        | TRETATIVE CONC.                                                                                                                                  | (1) (901)<br>(1) (901)<br>(1) (901)                          |                       | 140<br>126<br>140                  | C10824<br>C4418<br>C10824                             |
| Cyclobexape. Cyclobexape. Cyclobexape. Cyclobexape. Cyclobexape.                                                    | TREPATIVE CONC.  http://ceclic. il-methylpropy (1-methylethy) 12 methylyropy , t-echylyrope                                                      | []<br>/[]- (40])<br> ]- (70]]<br>/[]- (50])<br>thv[- (80])   |                       | 140<br>140<br>140<br>147           | C40824<br>C40824<br>C40824                            |
| Cyclobexage. Cyclobexage. Cyclobexage. Cyclobexage. Cyclobexage. Cyclobentage. [H-1,2,4-Tri                         | TRETATIVE CONC.  Outvi- CaClaC  (1-methvip:op)  (1-methvip:op)  12-methvip:op)  1-echyl-1-be;  azoie, 3-methy.                                   | []<br>(1)                                                    |                       | 40<br> 26<br> 40<br> 317<br> 83    | C10824<br>C4818<br>C10824<br>C8815<br>C385N3          |
| Cyclobexage. Cyclobexage. Cyclobexage. Cyclobexage. Cyclobeatage. Thel.2.4-Tri                                      | TREPATIVE CONC.  http://ceclic. il-methylpropy (1-methylethy) 12 methylyropy , t-echylyrope                                                      | []<br>(1)                                                    |                       | 40<br> 26<br> 40<br> 317<br> 83    | C8816<br>C40824<br>C40824                             |
| Cyclobekabe,<br>Cyclobekabe,<br>Cyclobekabe,<br>Cyclobekabe,<br>Cyclobekabe,<br>Cyclobentabe,<br>H-1,2,4-Tri        | TRETATIVE CONC.  Outvi- CaClaC  (1-methvip:op)  (1-methvip:op)  12-methvip:op)  1-echyl-1-be;  azoie, 3-methy.                                   | []<br>(1)                                                    |                       | 40<br> 26<br> 40<br> 317<br> 83    | C10824<br>C4818<br>C10824<br>C8815<br>C385N3          |
| Cyclobekabe, tyclobekabe, Cyclobekabe, Cyclobekabe, Cyclobentane, H.J., 4-Tri                                       | TRETATIVE CONC.  Outvi- CaClaC  (1-methvip:op)  (1-methvip:op)  12-methvip:op)  1-echyl-1-be;  azoie, 3-methy.                                   | []<br>(1)                                                    |                       | 40<br> 26<br> 40<br> 317<br> 83    | C10824<br>C4818<br>C10824<br>C8815<br>C385N3          |
| Cyclobexane, twetchexane, Cyclobexane, Cyclobexane, Cyclobexane, Cyclobentane, H-1,2,4-Tril-Butene, Z.              | The party E conc.  cutvi - cociec (1 - methy i prop) (1 - methy i ethy (2 - methy i prop) , the chy i to e azoie, 3 - methy; 3,3 - trime to y to | (8019cl)<br>(1) (901)<br>(1) (901)<br>(1) (901)<br>(1) (901) | (₹ { }                | 40<br> 26<br> 40<br> 317<br> 83    | C10824<br>C4818<br>C10824<br>C8815<br>C385N3          |
| a 438001.0 Cyclobekabe, Cyclobekabe, Cyclobekabe, Cyclobekabe, Cyclobekabe, Cyclobekabe, 18-1,2,4-Tri 1-\$utebe, 2. | TRETATIVE CONC.  Outvi- CaClaC  (1-methvip:op)  (1-methvip:op)  12-methvip:op)  1-echyl-1-be;  azoie, 3-methy.                                   | (801901)<br>(1) (901)<br>(1) (901)<br>(hv1 (901)<br>(801901) |                       | 40<br>  40<br>  17<br>  53<br>  98 | C10824<br>C4818<br>C10824<br>C8815<br>C385N3<br>C7814 |

Prob. CAS & CON W ROOT K OK SPAS TILT Z CON CLI RLIV

1. 666 (676939 5763 N#643K 58 36 1 8 95 15 35 49 🛲

| ######################################                                                                                                                                                                                                                                                                                                                                                                                                    | 1.1 1.5 1 = 1 ⁸ 1 2                                                  | + In the Page                                                                                   |                      | . **                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------|
| ### ##################################                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 | \$                                                                                              | 19 (1.1.14 to 12.1   | # :<br>*. ! .                                                      |
| ### ##################################                                                                                                                                                                                                                                                                                                                                                                                                    | · · · · · · · · · · · · · · · · · · ·                                           |                                                                                                 |                      |                                                                    |
| ### ##################################                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                 |                      |                                                                    |
| ######################################                                                                                                                                                                                                                                                                                                                                                                                                    | • :                                                                             |                                                                                                 |                      |                                                                    |
| ### AREA = 249749.s TENTATIVE CUNCENTRATION 10 11.00    Kentene, !-merhy]-4-propyt- (901)                                                                                                                                                                                                                                                                                                                                                 |                                                                                 | Figure 1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 t                                                   |                      | -                                                                  |
| AREA = 240744.s TENTATIVE CONCENTRATION IO 11.80  1. Kentene, !-merhv]-4-propy! (901)                                                                                                                                                                                                                                                                                                                                                     | -<br>-<br>-                                                                     | · · · · · · · · · · · · · · · · · · ·                                                           | : :                  | ·                                                                  |
| 2. Benzene, il-methvipiopy() (901)  3. Benzene, i-methvi propyl (901)  4. Benzene, i-methvi depropyl (901)  5. Benzene, il-methvi depropyl (901)  5. Benzene, il-methvi (801901)  6. Benzene, benutvi (801901)  6. Benzene, 5.(Z-methvipropyl) (901)  7. Becane, 5.methvi (801901)  8. Sample file: 500738  Spectron #2  Search speed: l Yfiting option: M No. of ion ranges searched:  Prob. CAS # CON # 8007 E DR #FLG 7:UT % CON C I R |                                                                                 | 三次電子學歷一學的數學片與個名為電子的                                                                             | N 10 - 14.332        |                                                                    |
| Search speed: 1 Yilting option: M No. of for ranges searched:  Prob. CAS # CON # KOOT   K DK #FLG TILT % CON C.I R                                                                                                                                                                                                                                                                                                                        | 2. Benzene. (1-mart) 3. Benzene. 1-marth 4. Benzene. 1-marth 5. Monane. 5-62-ma | hvipiopy() = (901)<br>v1-3 propvi (901)<br>v. 2-propvi (901)<br>- (801901)<br>thvipropyi) (901) |                      | 134 CION14<br>134 CION14<br>134 CION14<br>184 CI3H28<br>184 CI3H28 |
| Trob. CAS # CON # 800T E DE WELG TILT % CON CIR                                                                                                                                                                                                                                                                                                                                                                                           | <ul> <li>Sample file: &gt;00738</li> <li>Search speed: 1</li> </ul>             | Spectrom #1 Yilting option: M                                                                   | 578<br>No. of ton ta | अञ्चलक करबारहास्त्रः — ६५                                          |
| 1. 20% (07455) (4694 NBS43K 40 43 ) 0 (00 %) 5                                                                                                                                                                                                                                                                                                                                                                                            | Prob. CAS                                                                       | # CON # 8001                                                                                    | E DR VELG TIL        | T % CON C 1 R #\$                                                  |
| <u>*</u>                                                                                                                                                                                                                                                                                                                                                                                                                                  | l. 20% (87455<br>■                                                              | i 14694 NBSADK                                                                                  | 40 43 } 3            | (00 %) 5 (4                                                        |

| 1                                      |     |     |                                        |          | -5. ₹<br>-:* |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | 77:4 - **                       |
|----------------------------------------|-----|-----|----------------------------------------|----------|--------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------|
|                                        | · . | ; , |                                        |          |              |                                      | 17 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | `:          | ·<br>· :                        |
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|                                        |     |     |                                        |          |              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                 |
|                                        |     | . • | ٠                                      | <i>:</i> |              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - :         |                                 |
| erető közek ik<br>Lek Azertálos        |     |     |                                        | `        | *            | ,                                    | - ".";                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | mar (partition)                 |
| :                                      | -   |     |                                        | . :      |              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | ,                               |
| : f                                    | ¥   |     | 7                                      |          |              | . ••                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.73        |                                 |
| 7:34 92545                             |     |     |                                        |          |              | esti (i e. lis.                      | a syru (TVIII)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | • • • • • • | 10 - 20 (1<br>10 - 20 (1)       |
| :                                      |     |     |                                        |          |              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                 |
|                                        |     |     |                                        |          | : •          |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | .,          |                                 |
| ····. ············ ··················· |     |     |                                        |          |              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | · · · · · · · · · · · · · · · · |
|                                        |     |     |                                        |          |              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                 |
|                                        |     |     |                                        |          |              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                 |

|        | 切割日本(量於 多、注)          |                  |       |
|--------|-----------------------|------------------|-------|
| ARBA ≏ | AVITATUS, e TENTATIVA | CONCENTRATION 30 | 24.00 |

| Ι٠ | D-Limonene                                            | 1.36   | Clobia      |
|----|-------------------------------------------------------|--------|-------------|
| 2. | Bicvcloff.2.1 (begst-d-one. 1,7,7-trimethy)~ (BCT)    | 136    | Clattin     |
| 3. | Cyclobexamol, (-methyl-4-()-methylethony)) scotate    | 106    | C1383005    |
|    | 69C1)                                                 |        |             |
| 4. | Limonono                                              | しまり    | 019816      |
| 5. | Cyclobexene. ( methyl-4-01 methylethenylla. () -      | 135    | CIONIC      |
|    | (901)                                                 |        |             |
| €. | Cyclohexena, 4-ethenyi-1.4-dimethyl- (901)            | រៃវិសិ | C 1 0 H 1 G |
| Ţ, | Cyclobekene, i-methy) 4-44 methylethenylt-, (5)- (40- | ようか    | #10B16      |

| ,  |            |     |                  | ctum x:<br>: option: / |   |    | or io: | , san | gez · | kestrli | æ:l: | 41) | ,      |
|----|------------|-----|------------------|------------------------|---|----|--------|-------|-------|---------|------|-----|--------|
|    | fryb,      | CAS | a Cow            | # 800F                 | Х | DΚ | #F1.G  | 7117  | Ż.    | CON     | e i  | F I | y<br>¥ |
| 1. | 994<br>88: |     | 5 3353<br>5 3369 | ₩ ₩8943K<br>₩8943K     |   |    |        |       |       |         | •••  |     |        |

· 建氯烷酸亚磺酸 2000年

REER TO CHARLES OF TENTATIVE CONCENTRATION ID 22.00

| 1. Underson #8019013 | 15m Clist24 | 2. Triderson #8019011 | 184 Clist28 | 3. Hekarepsee (BCI901) | 300 Clost5 | 300 Clost5 | 300 Clost5 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clost6 | 300 Clo

### 6A VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ACCREDITED LABS, INC. Contract: _____

Instrument ID: HP5970C Calibration Date(s): 10/07/98

Heated Purge: (Y/N) Y Calibration Times: 09:37 12:27

GC Column: RTX-502 ID: 0.53 (mm)

|                                                             | = >C070;<br>= >C070; |        |        | 00= >C0. |        |                |                    |
|-------------------------------------------------------------|----------------------|--------|--------|----------|--------|----------------|--------------------|
|                                                             |                      | 1      |        |          |        |                |                    |
| COMPOUND                                                    | RRF10                | RRF20  | RRF50  |          | RRF200 |                | RSD 🖷              |
| Chloromothano                                               | 1.0034               | b .    | .6657  |          |        | .7372          | 22.8               |
| Chloromethane                                               | *1.4987              | 1 4108 | 1 3007 | 1.3546   | 1 3617 | 1 3853         | 5.3                |
| Vinvl Chloride                                              | *1.1936              | 1.0453 | .8929  | .8504    | .6066  | 9178           | 24.02              |
| Chloroethane                                                | 9934                 | .9705  | .9161  | .9094    | .9093  | 9397           | 4.20               |
| Bromomethane Vinyl Chloride Chloroethane Methylene Chloride | 2.3117               | 1.8051 | 1.5019 | 1 4846   | 1 4964 | 1.7199         | 20.77              |
| Acetone                                                     | .2540                | .2420  | .2134  | .1943    | .2118  | .2231          | 10.90              |
| Carbon Disulfide                                            | 1.8715               | 2.4429 |        | 2.2195   | 3.7752 | 2 7826         | 30.72              |
| 1,1-Dichloroethene                                          | ×1.6047              | 1.5372 | 1.4308 | 1.4652   | 1.5154 | 1.5107         | 4.44               |
| 1,1-Dichloroethane                                          | *2.9971              | 2.7761 | 2.6516 | 2.6771   | 2.7665 | 2.7737         | 4.9                |
| 1,2-Dichloroethene (total)                                  | 11.8894              | 1.7675 | 1.6777 | 1.6906   | 1.7435 | 1.7538         | 4.8                |
| Chloroform                                                  | ×3.5794              | 3.2199 | 3.0576 | 3.0297   | 3.1198 | 3.2013         | 6.99               |
| 1,2-Dichloroethane                                          | *1.8401              | 1.6703 | 1.6836 | 1.6350   | 1.6962 | 1.7050         | 4.63               |
| 2-Butanone                                                  | 1.0903               |        | .0870  | .0794    | .0908  |                | 6.2                |
| 1.1.1-Trichloroethane                                       | × .6021              |        |        |          | .5699  |                | 4.5.               |
| I Clarkan Matradh Larida                                    | * E100               | .5105  | .5190  | .5234    | .5573  | .5316          | 3.76               |
| Bromodichloromethane                                        | <b>*</b> .5774       | .5284  | .5615  | .5572    | .5933  | .5636          | 4.31               |
| 1,2-Dichloropropane                                         | .3666<br>* .4803     | .3280  | .3306  | 1.3307   | .3446  | .3401          | 4.7<br>4.2<br>5.83 |
| cis-1.3-Dichloropropene                                     | * .4803              | .4531  | .4697  | .4706    | .5080  | .4763          | 4.25               |
| Trichloroethene                                             | * .5323              | .4717  | .4651  | .4657    | .4870  | .4844          | 5.83               |
| DIDIOMOCHIOLOMECHANC                                        | * .5111              | .4817  | .5267  | .5278    | .5662  |                | 5.86               |
|                                                             | * .3173              | .2882  | .3014  | .2966    | .3099  | .3027          | 3.7!               |
| Benzene                                                     | *1.0381              | .9267  | .9260  | .9122    | .9428  | .9492          | 5.36               |
| Crans (/) bremeropropene                                    | * .3767              |        | .3828  | .3814    | .4172  | .3821          | 6.05               |
| Bromoform<br>4-Methyl-2-pentanone                           | * .3549              | .3351  | .3819  | .3904    | .4290  | .3783          | 9.48               |
| 4-Methyl-2-pentanone                                        | .2941                | .2631  | .2785  | .2732    | .3071  | .2832          | 6.1!               |
| 2-Hexanone Tetrachloroethene                                | 1665<br>5897         | .1528  | .1756  |          | .1092  | .1712          | 7.75<br>5.98       |
| 1,1,2,2-Tetrachloroethane                                   | * .4307              | .3845  | .4142  | .4269    | .4592  | .5352<br>.4231 | 6.41               |
| ( ) ( ) L) L LCCLUCIILCICCCCCCCCCCCCCCCCCCCCCCCCCC          | *1.5589              | 1 3710 | 1 3487 | 1 3658   | 1 3010 | 1 3803         | 7.16               |
| Chlorobenzene                                               | *1.1718              | 1 0477 | 1 0238 | 1 0370   | 1 0257 | 1 0612         | 5 9                |
| Ethylbenzene                                                | * .5824              | 5407   | .5643  | .5123    | .5231  | .5446          | 5.9C               |
| Styrene                                                     | *1.1025              | 1 0129 | 1 0310 | 1.0564   | 1 0647 | 1.0535         | 3.25               |
| Toluene Chlorobenzene Ethylbenzene Styrene Xylene (total)   | * .7275              | 6251   | .6175  | .6195    | .6352  | .6450          | 7.2                |
|                                                             |                      |        |        | =====    |        |                | =====              |
| l                                                           | 1.4050               | 1 2470 | 1 2079 | 1.2184   | 1 2379 | 1 2633         | 6.39               |
| Toluene-d8Bromofluorobenzene                                | * .7747              | .6669  | .6765  | .6934    | .7034  | 7030           | 6.05               |
| 1,2-Dichloroethane-d4                                       | 11.5236              |        |        | 1.3287   |        | 1.3889         | 5.6                |
| '/ 2 DIONIOI OCCINANO & 1                                   | 1.5250               |        | 1.33.0 | 1.0207   | 1.5040 |                | J. 0               |
| Compounds with required min                                 | I DDI                | 1      | 1      | DCD TO   |        | I              |                    |

* Compounds with required minimum RRF and maximum &RSD values.
All other compounds must meet a minimum RRF of 0.010.

# 7A VOLATILE CONTINUING CALIBRATION CHECK

ab Name: ACCREDITED LABS, INC. Contract:

Instrument ID: HP5970C Calibration Date: 10/09/98 Time: 08:43

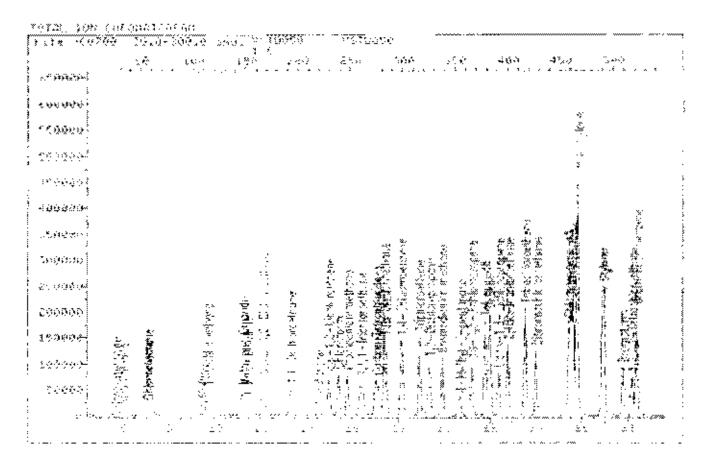
Heated Purge: (Y/N) YY Init. Calib. Times: 09:37 12:27

C Column: RTX-502 ID: 0.53 (mm)

|                            | 1        | i      | MIN    | i      | MA  |
|----------------------------|----------|--------|--------|--------|-----|
|                            |          | RRF50  |        |        |     |
|                            |          |        |        | •      |     |
| Chloromethane              |          |        |        | 9.86   |     |
| Bromomethane               |          |        |        |        |     |
| Vinyl Chloride             |          |        |        |        |     |
| Chloroethane               |          |        |        | .36    |     |
| Methylene Chloride         |          |        |        | i 8.57 |     |
| Acetone                    |          |        |        | 5,34   |     |
| Carbon Disulfide           |          |        |        |        |     |
| 1,1-Dichloroethene         |          |        |        |        |     |
| 1,1-Dichloroethane         |          |        |        |        |     |
| 1,2-Dichloroethene (total) |          |        |        | .71    |     |
| Chloroform                 | [3.2013] | 3.1264 | 0.200  | 2.34   |     |
| 1,2-Dichloroethane         |          |        |        |        |     |
| 2-Butanone                 |          |        |        |        |     |
| 1,1,1-Trichloroethane      |          |        |        |        | -   |
| Carbon Tetrachloridei      |          |        |        |        |     |
| Bromodichloromethane       |          |        |        |        |     |
| 1,2-Dichloropropanei       |          |        |        |        |     |
| cis-1,3-Dichloropropene    |          |        |        |        |     |
| Trichloroethene            |          |        |        |        |     |
| Dibromochloromethane       |          |        |        |        |     |
| 1,1,2-Trichloroethane      |          |        |        |        | 25. |
| Benzene                    | .9492    | .9252  | 0,500  | 2.52   | 25. |
| trans-1,3-Dichloropropenei |          |        |        |        | 25. |
| Bromoform                  |          |        |        |        |     |
| 4-Methyl-2-pentanonei      |          |        |        | 10,10  |     |
| 2-Hexanonei                | .1712    | .1589  |        | 7.17   |     |
| Tetrachloroethenei         | .5352    | .5263  | 0.2001 | 1.67   | 25. |
| 1,1,2,2-Tetrachloroethanei | .4231    | .3857  | 0.300  | 8,85   | 25. |
| Toluene                    |          |        |        |        | 25. |
| Chlorobenzene              | 1.0612   | 1.0457 | 0.500  | 1.46   | 25. |
| Ethylbenzene               | .5446    | .5149  | 0.100  | 5.45   | 25. |
| Styrene                    | 1.0535   | 1.0600 | 0.300  | .621   | 25. |
| <pre>Xylene (total)i</pre> | .64501   | .6266  | 0.300  | 2.85   |     |
|                            | •        |        |        | ,      |     |
| Toluene-d8i                |          |        |        |        |     |
| Bromofluorobenzene         | .7030    | .7041  | 0.200  | .16    |     |
| 1,2-Dichloroethane-d4      |          |        |        |        |     |
|                            | l        |        |        |        |     |

All other compounds must meet a minimum RRF of 0.010.

V-49



Data File: >C0700::€I

- Quant Carpet File: ~~00700::Di

Name: VSTD050

WETE 050

Misc:

Id File: IDPS21::SC

Title: Accredited Labs Vok ID file - RTX 502,2 105m 0.53mm 3.0um

Last Calibration: 980824 11:20

Operator ID: William

Quant Time: 981007 10:08 Injected at: 981007 06:17

# QUANT REPORT

 Operator ID:
 WILLIAM
 Quant Rev:
 6
 Quant Time:
 981007 10:08

 Butput File:
 ^C0700::D2
 Injected at:
 981007 09:37

 Data File:
 >C0700::C1
 Dilution Factor:
 1.00000

ame: VSTD050 VSTD050

wisc:

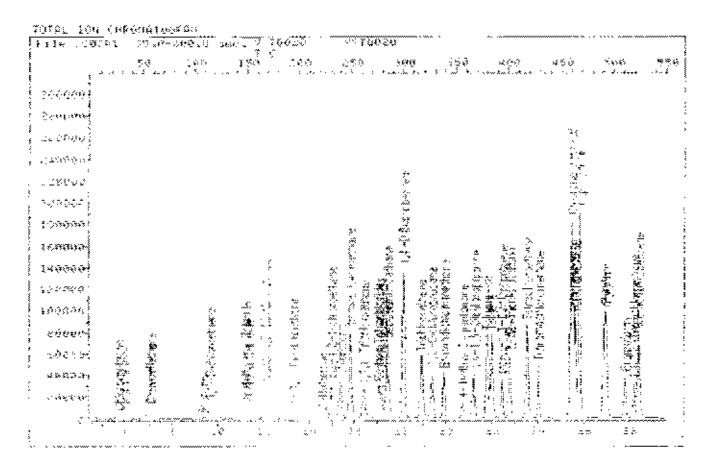
D File: IDPS21::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 980824 11:20

| _            | Compound                  | R.T.  | Scan# | Area    | Conc          | Units | q<br> |
|--------------|---------------------------|-------|-------|---------|---------------|-------|-------|
| 1)           | *Bromochloromethane       | 15,82 | 248   | 93560   | 50.00         | ug/l  | 92    |
| 2)           | Chloromethane             | 5.69  | 26    | 62283   | 94.94         | ug/l  | 91    |
| <b>3</b> )   | Bromomethane              | 7.11  | 57    | 121696M | 77.17         | ug/l  |       |
| 4)           | Vinyl Chloride            | 6.01  | 33    | 83540M  | 93.19         | ug/l  |       |
| 5)           | Chloroethane              | 7.06  | 56    | 85707   | 72.06         | ug/l  | 93    |
|              | Methylene Chloride        | 11.26 | 148   | 140516  | 56.56         | ug/l  | 89    |
| 77)          | Acetone                   | 9.39  | 107   | 19965   | 54.58         | ug/l  | 90    |
| 8)           | Carbon Disulfide          | 11.44 | 152   | 337181  | 138.05        | ug/l  | 98    |
| 9)           | 1,1-Dichloroethene        | 9.71  | 114   | 133869  | 64.48         |       | 98    |
| <b>X</b> 0)  | 1,1-Dichloroethane        | 13,36 | 194   | 248080  | 47.57         | ug/l  | 89    |
| 11)          | cis-1,2-Dichloroethene    | 15.00 | 230   | 159960  | 54.12         |       | 96    |
| 2)           | trans-1,2-Dichloroethene  | 12.12 | 167   | 153978  | 63.77         | ug/l  | 95    |
| 🚗 3 )        | Chloroform                | 15.41 | 239   | 286071  | 40.75         | ug/l  | 95    |
| 14)          | 1,2-Dichloroethane-d4     | 17.19 | 278   | 127013  | 32.10         | ug/l  | 74    |
| 15)          | 1,2-Dichloroethane        | 17.41 | 283   | 157521  | 33.69         | ug/l  | 98    |
| 6)           | *1,4-Difluorobenzene      | 18.14 | 299   | 472540  | 50.00         |       | 77    |
| <b>T</b> 7)  | 2-Butanone                | 14.54 | 220   | 41121   | 76.87         | ug/l  | 97    |
| 18)          | 1,1,1-Trichloroethane     | 16.41 | 261   | 259668  | 33.60         |       | 93    |
| 9)           | Carbon Tetrachloride      | 17.05 | 275   | 245255  | 33.25         |       | 95    |
| <b>(0)</b>   | Bromodichloromethane      | 19.92 | 338   | 265344  | 45.10         |       | 92    |
| 21)          | 1,2-Dichloropropane       | 19.38 | 326   | 156200  | 59.1 <b>7</b> |       | 97    |
| 2)           | cis-1,3-Dichloropropene   | 21.20 | 366   | 221935  | 53.20         |       | 95    |
| _3)          | Trichloroethene           | 18.92 | 316   | 219797M | 58.08         |       |       |
| 24)          | Benzene                   | 17,46 | 284   | 437588  | 60.94         |       | 100   |
| 35)          | Dibromochloromethane      | 24.03 | 428   | 248910  | 50.45         | ~     | 93    |
| _6)          | 1,1,2-Trichloroethane     | 22,80 | 401   | 142404  | 61.47         | ···   | 91    |
| 27)          | trans-1,3-Dichloropropene | 22.39 | 392   | 180902  | 54.76         |       | 96    |
| 28)          | Bromoform                 | 27.77 | 510   | 180471M | 55.27         |       |       |
| -, 9)        | *Chlorobenzene-d5         | 25.40 | 458   | 394409  | 50.00         |       | 84    |
| <b>(</b> 0)  | 2-Hexanone                | 22.80 | 401   | 69245   | 65.83         |       | 81    |
| 31)          | 4-Methyl-2-pentanone      | 20.74 | 356   | 109860M | 65.54         |       |       |
| 72)          | Tetrachloroethene         | 23.53 | 417   | 201309  | 54.03         |       | 92    |
| 3)           | 1,1,2,2-Tetrachloroethane | 28.18 | 519   | 163361  | 66.20         |       | 90    |
| 34)          | Toluene-d8                | 21.79 | 379   | 476404  | 56.05         | _     | 93    |
| 35)          | Toluene                   | 21.98 | 383   | 531956  | 57.03         | ~ .   | 99    |
| 6)           | Chlorobenzene             | 25.49 | 460   | 403799  | 56.51         |       | 94    |
| <b>45</b> 7) | Bromofluorobenzene        | 28.36 | 523   | 266800  | 43.03         |       | 75    |
| 38)          | Ethylbenzene              | 25.63 | 463   | 222564M | 55.94         | -     | 67    |
| ,9)          | Styrene                   | 26,95 | 492   | 406618  | 57.10         |       | 82    |
| 0)           | m,p-Xylene                | 25.81 | 467   | 486979  | 110.68        |       | 87    |
| 41)          | o-Xylene                  | 26.86 | 490   | 243537  | 55.35         | ug/I  | 89    |

^{*} Compound is ISTD



Data File: >CO701:::Cl

Quant Output File: 100701::D8

Name: VSTD020

VSTBD2b

Hiso:

Id file: IDPS21::SC

Title: Accredited Labs VOA 10 file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 980824 11:20

Operator ID: WILLIAM

Quant Time: 981007 11:11 Injected at: 981007 10:41

#### QUANT REPORT

Name: VSTD020 VSTD020

i sc:

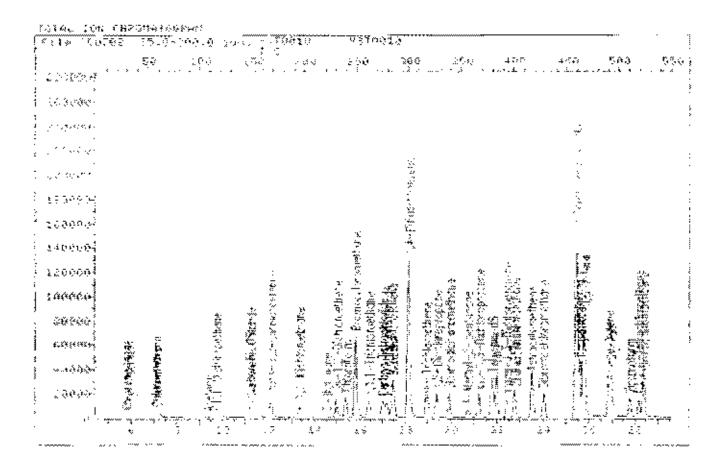
ID File: IDPS21::SC

1.tle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

ist Calibration: 980824 11:20

|                           | Compound                  | R.T.  | Scan# | Area    | Conc  | Units | q<br> |
|---------------------------|---------------------------|-------|-------|---------|-------|-------|-------|
| 1)                        | *Bromochioromethane       | 15.80 | 249   | 93183M  | 50.00 | ug/l  |       |
| 2)                        | Chloromethane             | 5,68  | 27    | 29575   | 45.27 | -     | 91    |
| 3.)                       | Bromomethane              | 7.09  | 58    | 52586   | 33.48 | ug/l  | 97    |
| The second                | Vinyl Chloride            | 5.95  | 33    | 38963M  | 43,64 | uq/l  |       |
| 5 j                       | Chloroethane              | 7.05  | 57    | 36172   | 30.54 | ug/l  | 93    |
| <i>i</i> )                | Methylene Chloride        | 11.24 | 149   | 67283   | 27.19 | ug/l  | 86    |
| <b>~</b> ")               | Acetone                   | 9.37  | 108   | 9021    | 24.76 | ug/l  | 95    |
| 8)                        | Carbon Disulfide          | 11.38 | 152   | 91053   | 37.43 | ug/l  | 99    |
| 9)                        | 1,1-Dichloroethene        | 9.69  | 115   | 57295   | 27.71 | ug/l  | 97    |
| ( تے                      | 1,1-Dichloroethane        | 13.34 | 195   | 103473  | 19.92 |       | 89    |
| $\mathbf{F}_{\mathbf{j}}$ | cis-1,2-Dichloroethene    | 14.98 | 231   | 66615   | 22.63 |       | 9 i   |
| [2]                       | trans-1,2-Dichloroethene  | 12,11 | 168   | 65146   | 27.09 | ug/l  | 97    |
| 3)                        | Chloroform                | 15.39 | 240   | 120016  | 17,16 | ug/l  | 95    |
| 📆 k )                     | 1,2-Dichloroethane-d4     | 17.22 | 280   | 50335   | 12.77 | ug/l  | 81    |
| 15)                       | 1,2-Dichloroethane        | 17.45 | 285   | 62259   | 13.37 | uq/l  | 96    |
| 5)                        | *1,4-Difluorobenzene      | 18.13 | 300   | 493841  | 50.00 | ug/l  | 76    |
| 7)                        | 2-Butanone                | 14.57 | 222   | 15964   | 28.56 | uq/l  | 96    |
| I8)                       | 1,1,1-Trichloroethane     | 16,40 | 262   | 107252  | 13.28 | uq/l  | 95    |
| 19)                       | Carbon Tetrachloride      | 17.04 | 276   | 100845  | 13.08 | ug/l  | 94    |
| 9)                        | Bromodichloromethane      | 19.91 | 339   | 104382  | 16.98 | uq/l  | 92    |
| <b>2</b> 1)               | 1,2-Dichloropropane       | 19.36 | 327   | 64783   | 23.48 | -     | 97    |
| 22)                       | cis-1,3-Dichloropropene   | 21.23 | 368   | 89503   | 20.53 | uq/l  | 96    |
| (3)                       | Trichloroethene           | 18.91 | 317   | 93174M  | 23.56 | ug/l  |       |
| 1 )                       | Benzene                   | 17,45 | 285   | 183060  | 24.39 | ug/l  | 100   |
| 25)                       | Dibromochloromethane      | 24.01 | 429   | 95162   | 18.46 | ug/l  | 95    |
| 6)                        | 1,1,2-Trichloroethane     | 22.78 | 402   | 56930   | 23.52 | ug/l  | 90    |
| <b>7</b> )                | trans-1,3-Dichloropropene | 22.42 | 394   | 69627   | 20.17 | ug/l  | 96    |
| 28)                       | Bromoform                 | 27.80 | 512   | 66199   | 19,40 | ug/l  | 99    |
| 29)                       | *Chlorobenzene-d5         | 25.43 | 460   | 403318  | 50.00 | ug/l  | 89    |
| 0)                        | 2-Hexanone                | 22.78 | 402   | 24644   | 22.91 | ug/l  | 78    |
| <b>3</b> 1)               | 4-Methyl-2-pentanone      | 20.73 | 357   | 42453M  | 24.77 | ug/l  |       |
| 32)                       | Tetrachloroethene         | 23.51 | 418   | 85859   | 22.54 | ug/l  | 90    |
| 3)                        | 1,1,2,2-Tetrachloroethane | 28.17 | 520   | 62031   | 24.58 | ug/l  | 91    |
| <b>4</b> )                | Toluene-d8                | 21.78 | 380   | 201167  | 23.15 | ug/l  | 94    |
| 35)                       | Toluene                   | 21.96 | 384   | 221183  | 23.19 |       | 99    |
| ^6)                       | Chlorobenzene             | 25.52 | 462   | 169015  | 23.13 |       | 96    |
| 7)                        | Bromofluorobenzene        | 28.35 | 524   | 107585M | 16.97 | -     |       |
| 38)                       | Ethylbenzene              | 25.61 | 464   | 87231M  | 21.44 | -     | 64    |
| 39)                       | Styrene                   | 26.93 | 493   | 163416  | 22.44 | _     | 82    |
| :0)                       | m,p-Xylene                | 25.79 | 468   | 211099  | 46.92 | -     | 85    |
| <b>Ų</b> 1)               | o-Xylene                  | 26.89 | 492   | 100850  | 22.42 | ug/l  | 93    |

^{*} Compound is ISTD



Data Pije: >C070%::Cl

Quant Output File: "C0702::D2

Name: VSTD010 VSTD010

Misc:

id File: IDPS21::SC

Title: Accredited Lab: VOA ID file - KTX 502.2 105m 0.53mm 3.5um

Last Calibration: 980024 11:20

Operator ID: WILLIAM

Quant Time: 961007 i.:46 Injected at: 961007 i.:16

# QUANT REPORT

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981007 11:46

 (:tput File: ^C0702::D2
 Injected at: 981007 11:16

 Lamber File: >C0702::C1
 Dilution Factor: 1.00000

Name: VSTD010 VSTD010

l .sc:

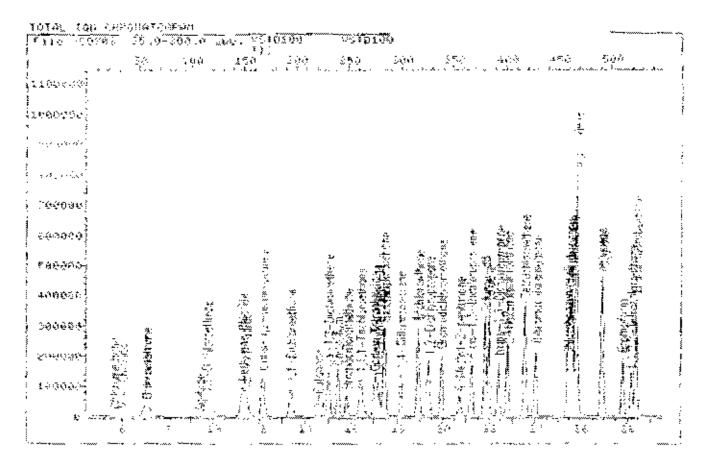
ID File: IDPS21::SC

7'tle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

st Calibration: 980824 11:20

|                 | Compound                              | R.T.           | Scan#      | Area   | Conc  | Units | q         |
|-----------------|---------------------------------------|----------------|------------|--------|-------|-------|-----------|
| <b>(62.</b> )   | *Bromochloromethane                   | 15.83          | 249        | 83094  | 50.00 | ua/1  | 91        |
| 2)              |                                       | 5.80           | 29         | 16676M | 28.62 |       |           |
| · )             |                                       | 7.12           |            | 24906M | 17.78 |       |           |
| i               |                                       | 5.93           |            | 19836M | 24.92 |       |           |
| 5)              | <del>-</del>                          | 7.07           | 57         | 16509  | 15.63 |       | 94        |
| 5)              |                                       | 11.27          | 149        | 38417  | 17.41 |       | 88        |
| ;               |                                       | 9.40           | 108        | 4222   | 12,99 |       | 91        |
| 8)              |                                       | 11.22          | 148        | 31102  | 14.34 |       | 99        |
| 9)              |                                       | 9.76           | 116        | 26668  | 14.46 |       | 96        |
| ))              | · · · · · · · · · · · · · · · · · · · | 13.37          | 195        | 49808  | 10.75 |       | 87        |
| mar j           |                                       | 15.01          | 231        | 31956  | 12.17 | ug/l  | 95        |
| 12)             | trans-1,2-Dichloroethene              | 12.13          | 168        | 30844  | 14.38 | ug/l  | 97        |
| 3 j             |                                       | 15.42          | 24 Ü       | 59485  | 9,54  | ug/l  | 94        |
| <u> </u>        |                                       | 17.20          | 279        | 25321  | 7.21  | ug/l  | 79        |
| 15)             |                                       | 17.43          | 284        | 30580  | 7.36  | ug/l  | 96        |
| 45)             | *1,4-Difluorobenzene                  | 18.16          | 300        | 430934 | 50.00 | ug/l  | 78        |
| 7 )             | 2-Butanone                            | 14.55          | 221        | 7783   | 15.95 | ug/l  | 90        |
| <b>2</b> 8)     | 1,1,1-Trichloroethane                 | 16.42          | 262        | 51890  | 7.36  | ug/l  | 92        |
| 19)             | Carbon Tetrachloride                  | 17.01          | 275        | 47234  | 7.02  | ug/l  | 96        |
| 3)              | Bromodichloromethane                  | 19.93          | 339        | 49762  |       | ug/l  | 93        |
| <b>1</b> )      | 1,2-Dichloropropane                   | 19.39          | 327        | 31598  | 13.13 |       | 96        |
| 22)             | cis-1,3-Dichloropropene               | 21.21          | 367        | 41395  | 10.88 | _     | 94        |
| `3)             | Trichloroethene                       | 18.93          | 317        | 45879  | 13.29 | ₩"    | 87        |
| <u> </u>        | Benzene                               | 17.47          | 285        | 89473  | 13.66 |       | 100       |
| <b>Z</b> 5)     | Dibromochioromethane                  | 23.99          | 428        | 44050  | 9.79  |       | 98        |
| 26)             |                                       | 22.76          | 401        | 27350  | 12.95 |       | 90        |
| 7)              |                                       | 22.40          | 393        | 32470  | 10.78 |       | 95        |
| <del>2</del> 8) |                                       | 27.78          | 511        | 30588M | 10.27 |       |           |
|                 | *Chlorobenzene-d5                     | 25.41          | 459        | 346960 | 50.00 |       | 86        |
| 0)              |                                       | 22.81          | 402        | 11553  | 12.49 |       | 83        |
| <b>1</b> )      | 4-Methyl-2-pentanone                  | 20.71          | 356        | 20411  | 13.84 |       | 77        |
| 32)             |                                       | 23.49          | 417        | 40920  | 12.49 |       | 87        |
| ີ 3 )           | 1,1,2,2-Tetrachloroethane             | 28.14          | 519        | 29886  | 13.77 | 20.   | 92        |
| 4)              |                                       | 21.80          | 380        | 97498  | 13.04 |       | 94        |
| 35)             |                                       | 21.99          | 384        | 108173 | 13.18 |       | 99        |
| 36)             |                                       | 25.50          | 461<br>524 | 81314  | 12.94 |       | 94        |
| 7)              |                                       | 28.37          |            | 53760  |       | ug/1  | 78<br>= 0 |
| <b>\$8</b> )    | •                                     | 25.64<br>26.96 | 464<br>493 | 40411M | 11,55 |       | 69        |
| 39)             | •                                     |                |            | 76508  | 12.21 |       | 83        |
| 0)              |                                       | 25.82          | 468<br>491 | 102307 | 26,43 |       | 89        |
| <u> </u>        | o-Xylene                              | 26.87          | サコナ        | 50482  | 13.04 | ug/1  | 90        |

^{*} Compound is ISTD



Data File: >C¢%63::C{

Quant Outpus File: 100703::02

Wame: VSTD100 VSTD100

Misc

Id File: IDPS21::50

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0em

Last Calibration: 980524 11:20

Operator ID: WILLIAM

Quant Time: 981007 12:22 Injopted At: 981007 11:52

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981007 12:22

 Dutput File: ^C0703::D2
 Injected at: 981007 11:52

 Data File: >C0703::C1
 Dilution Factor: 1.00000

Name: VSTD100 VSTD100

Misc:

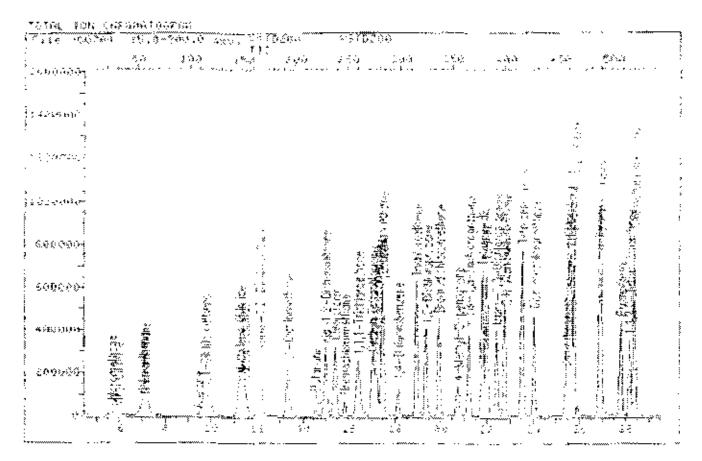
ID File: IDPS21::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 980824 11:20

|                  | Compound                                | R.T.           | Scan#      | Area             | Conc             | Units |          |
|------------------|-----------------------------------------|----------------|------------|------------------|------------------|-------|----------|
| <b>1</b>         | *Bromochloromethane                     | 15.83          | 249        | 88535            | 50.00            | ua/l  | 90       |
| 2)               | Chloromethane                           | 5,66           | 26         | 114493           | 184.44           |       | 89       |
| 3 )              | Bromomethane                            | 7.07           | 57         | 239863           | 160.73           |       | 98       |
| 4)               | Vinyl Chloride                          | 6.02           | 34         | 150572M          | 177.51           |       |          |
| 5)               | Chloroethane                            | 7.07           | 57         | 161019           | 143.07           | ~     | 95       |
| 6)               | Methylene Chloride                      | 11.27          | 149        | 262885           | 111.82           | •     | 87       |
| 7)               | Acetone                                 | 9.40           | 108        | 34408            | 99.40            |       | 92       |
| 8)               | Carbon Disulfide                        | 11.41          | 152        | 393002           | 170.04           | ug/l  | 97       |
| 9)               | 1,1-Dichloroethene                      | 9.72           | 115        | 259444           | 132.05           |       | 97       |
| 10)              | 1,1-Dichloroethane                      | 13.37          | 195        | 474040           | 96.05            | ug/l  | 89       |
| mii)             | cis-1,2-Dichloroethene                  | 15.01          | 231        | 304414           | 108.85           | ug/l  | 95       |
| 12)              | trans-1,2-Dichloroethene                | 12.13          | 168        | 294295           | 128.79           | ug/l  | 97       |
| 13)              | Chloroform                              | 15.42          | 240        | 536463           | 80.75            | ug/l  | 94       |
| <u>14</u> )      | 1,2-Dichloroethane-d4                   | 17.20          | 279        | 235280           | 62.84            | ug/l  | 77       |
| T15)             | 1,2-Dichloroethane                      | 17.43          | 284        | 289511           | 65,43            |       | 96       |
| 16)              | *1,4-Difluorobenzene                    | 18.16          | 300        | 455328           | 50.00            |       | 78       |
| _17)             | 2-Butanone                              | 14.55          | 221        | 72265            | 140,20           |       | 98       |
| 18)              | 1,1,1-Trichloroethane                   | 16.42          | 262        | 493796           | 66.31            | -     | 92       |
| 19)              | Carbon Tetrachloride                    | 17.02          | 275        | 476609           | 67.05            | w.    | 96       |
| 20)              | Bromodichloromethane                    | 19.93          | 339        | 507422           | 89.51            |       | 93       |
| 21)              | 1,2-Dichloropropane                     | 19.39          | 327        | 301143           | 118.40           |       | 97       |
| 22)              | cis-1,3-Dichloropropene                 | 21.21          | 367        | 428591           | 106.61           |       | 94       |
| 23)              | Trichloroethene                         | 18.93          | 317        | 424116           | 116.31           |       | 86       |
| 24)              | Benzene                                 | 17.47          | 285        | 830706           | 120.06           | -     | 100      |
| ⁻²⁵ ) | Dibromochloromethane                    | 24.04          | 429        | 480613           | 101.10           | _     | 92       |
| 26)              | 1,1,2-Trichloroethane                   | 22.76          | 401        | 270127           | 121.02           | -     | 89       |
| 27)              | trans-1,3-Dichloropropene               | 22.40          | 393        | 347309           | 109.10           |       | 95       |
| <b>=</b> 28)     | Bromoform                               | 27.78          | 511        | 355565           | 113.00           |       | 96       |
| 29)              |                                         | 25.41          | 459        | 376416           | 50.00            |       | 85       |
| 30)              | 2-Hexanone                              | 22.81          | 402        | 129517           | 129.02           |       | 82       |
| <b>31</b> )      | 4-Methyl-2-pentanone                    | 20.71          | 356        | 205709M          | 128.58           |       | 2.5      |
| 32)              | Tetrachloroethene                       | 23.54<br>28.19 | 418<br>520 | 386226           | 108.62           |       | 96       |
| 33)              | 1,1,2,2-Tetrachloroethane<br>Toluene-d8 | 21.81          | 380        | 321421<br>917287 | 136.49<br>113.08 |       | 89       |
| <b>■</b> 35)     | Toluene                                 | 21.99          | 384        | 1028243          | 115.00           |       | 94<br>99 |
| 36)              | Chlorobenzene                           | 25.50          | 461        | 780686           | 114.48           |       | 94       |
| 37)              | Bromofluorobenzene                      | 28.38          | 524        | 522045           | 88.22            |       | 79       |
| <b>3</b> 7)      | Ethylbenzene                            | 25.64          | 464        | 385665           | 101.57           |       | 99       |
| 39)              | Styrene                                 | 26.96          | 493        | 795311           | 117.02           |       | 82       |
| 40)              | m,p-Xylene                              | 25.82          | 468        | 978376           | 233.00           |       | 74       |
| 41)              | o-Xylene                                | 26,87          | 491        | 466353           | 111.06           | •     | 90       |
| ,                | <b>/</b>                                |                | <b>-</b>   |                  | ,                |       | J        |

^{*} Compound is ISTD



Oata File: )C0704::C1 Quant Cutput File: "C0704::D2

Name: VSTD200 VSTD200

Mise:

Id File: IDPS21 (:SC

Title: Accredited Labs: VOA 3D file - RTX 502,2 105m 0.53mm 3.0um

Last Calibration: 960324 );:20

Operator ID: WILLIAM

Quant Time: 981007 | 4:58 Injected at: 981007 | 4:27

Mame: VSTD200 VSTD200

lisc:

ID File: IDPS21::SC

itle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

■ast Calibration: 980824 11:20

|              | Compound                  | R.T.  | Scan#       | Area             | Conc   | Units |     |
|--------------|---------------------------|-------|-------------|------------------|--------|-------|-----|
| 1)           | *Bromochloromethane       | 15.82 | 248         | 92690            | 50.00  | uq/l  | 91  |
| 2)           | Chloromethane             | 5.65  | 25          | 213875           | 329.09 | -     | 91  |
| 3)           | Bromomethane              | 7.11  | 57          | 504870M          | 323.15 | *··   |     |
| 4)           | Vinyl Chloride            | 5.93  | 31          | 224908M          | 253.25 | -     |     |
| 5)           | Chloroethane              | 7.02  | 5.5         | 337125           | 286.12 | ug/l  | 93  |
| 6)           | Methylene Chloride        | 11.26 | 148         | 554804           | 225.42 | ug/l  | 86  |
| <b>7</b> )   | Acetone                   | 9,44  | 108         | 78512            | 216.64 | ug/l  | 93  |
| 8)           | Carbon Disulfide          | 11.45 | 152         | 1399704          | 578.45 | ug/l  | 97  |
| 9)           | 1,1-Dichloroethene        | 9.76  | 115         | 561850           | 273.15 | ug/l  | 97  |
| 10)          | 1,1-Dichloroethane        | 13,36 | 194         | 1025694          | 198.52 | ug/l  | 88  |
| <b>1</b> 1)  | cis-1,2-Dichloroethene    | 15.00 | 230         | 655327           | 223.82 | ug/l  | 96  |
| 12)          | trans-1,2-Dichloroethene  | 12.13 | 167         | 637532           | 266,49 | ug/l  | 96  |
| L3)          | Chloroform                | 15.41 | 239         | 1156691          | 166.30 | ug/l  | 94  |
| <b>-1</b> 4) | 1,2-Dichloroethane-d4     | 17.19 | 278         | 513121           | 130.90 | ug/l  | 77  |
| 15)          | 1,2-Dichloroethane        | 17.42 | 283         | 628870           | 135.75 | ug/l  | 96  |
| 16)          | *1,4-Difluorobenzene      | 18.15 | 299         | 464261           | 50.00  | ug/l  | 78  |
| <b>1</b> 7)  | 2-Butanone                | 14.55 | 220         | 168691           | 320.98 | ug/l  | 98  |
| 18)          | 1,1,1-Trichloroethane     | 16.42 | 261         | 1058240          | 139.36 | ug/l  | 93  |
| 19)          | Carbon Tetrachloride      | 17.01 | 274         | 1034877          | 142.79 | ug/l  | 96  |
| _20)         | Bromodichloromethane      | 19.93 | 338         | 1101852          | 190.63 | ug/l  | 93  |
| 21)          | 1,2-Dichloropropane       | 19.38 | 326         | 639957           | 246.76 | ug/l  | 97  |
| 22)          | cis-1,3-Dichloropropene   | 21.21 | 366         | 943446           | 230.17 | ug/l  | 95  |
| 23)          | Trichloroethene           | 18.93 | 316         | 904377           | 243.24 | ug/l  | 85  |
| 24)          | Benzene                   | 17.47 | 284         | 1750881          | 248.18 | ug/l  | 100 |
| 25)          | Dibromochloromethane      | 24.04 | 428         | 1051481          | 216.93 | ug/l  | 91  |
| 26)          | 1,1,2-Trichloroethane     | 22.76 | 400         | 575414           | 252.83 | ug/l  | 89  |
| <u>-27)</u>  | trans-1,3-Dichloropropene | 22.39 | 392         | 774676           | 238.68 |       | 95  |
| 28)          | Bromoform                 | 27.80 | 509         | 796677           | 248.31 | -     | 99  |
| 29)          | *Chlorobenzene-d5         | 25.41 | 458         | 380521           | 50.00  | -     | 86  |
| 30)          | 2-Hexanone                | 22.81 | 401         | 287908           | 283.72 | -     | 83  |
| 31)          | 4-Methyl-2-pentanone      | 20.75 | 356         | 467 <b>4</b> 68M | 289.05 |       |     |
| 32)          | Tetrachloroethene         | 23.54 | 417         | 807964           | 224.77 |       | 95  |
| 33)          | 1,1,2,2-Tetrachloroethane | 28.17 | 517         | 698923           | 293.59 |       | 90  |
| <b>=</b> 34) | Toluene-d8                | 21.80 | 379         | 1884233          | 229.78 | -     | 89  |
| 35)          | Toluene                   | 21,98 | 383         | 1981664          | 220.19 | -     | 80  |
| 36)          | Chlorobenzene             | 25.50 | 460         | 1561225          | 226.47 |       | 89  |
| 37)          | Bromofluorobenzene        | 28.35 | 521         | 1070705M         | 178,98 |       |     |
| 38)          | Ethylbenzene              | 25.63 | 463         | 796251           | 207.45 |       | 71  |
| 39)          | Styrene                   | 26.93 | 490         | 1620623          | 235.87 |       | 85  |
| 40)          | m,p-Xylene                | 25.77 | <b>46</b> 6 | 1029131M         | 242.44 |       | 90  |
| <b>4</b> 1)  | o-Xylene                  | 26.84 | 488         | 966870           | 227.77 | ug/1  | 78  |

^{*} Compound is ISTD

4.07 1 (86,656 1 14 m 2000 1 1 200

Quart Output File: "CB7431:05 Data Pital Spezistici Mampi VITDOSS

¥51005e

Misco

IN FILMS TOPOSED: DO

Title: Accredited Late VOA ID file - RTX 502.2 105m 0-55mm 3.00m

Lage Calibration: 981007 [3:]2

Operator Thi William

@want fime: 981009 (9:13 injected at: 981889 18353

Quant Rev: 6 Quant Time: 981009 09:13 Operator ID: WILLIAM Injected at: 981009 08:43 Output File: 100733::0T
Data File: >00733::01

Dilution Factor: 1.00000

Name: VSTD050 VSTD050

Misc:

ID File: IDPS22::50

Title: Accredited Labs VOA TD file - ETX 507.2 105m U.53mm 3.0um

■Last Calibration: 981007 13:12

|              | Compound                  | В.Т.  | Scan# | Area            | Conc  | Units | ч<br>      |
|--------------|---------------------------|-------|-------|-----------------|-------|-------|------------|
| I)           | *Bromochloromethane       | 15.76 | 247   | 81517           | 50.00 | -     | 94         |
| 2)           | Chloromethane             | 5.63  | 2.5   | 54170           | 49.91 |       | 87         |
| 3)           | Bromomethane              | 7.05  | 56    | 107338          | 50.62 | -     | 98         |
| 4)           | Vinyl Chloride            | 5.95  | 3.2   | 71980           | 49.45 | -     | 96         |
| 5)           | Chloroethane              | 7.00  | 5.5   | 76325           | 51.10 | ug/l  | 92         |
| 6)           | Methylene Chloride        | 11.20 | 147   | 128186          | 52.35 | ug/l  | 8 7        |
| 7)           | Acetone                   | 9.37  | 107   | 17216           | 49.49 | ug/l  | 99         |
| 8)           | Carbon Disulfide          | 11.15 | 146   | 125797          | 21.41 | -     | 98         |
| 9)           | 1,1-Dichloroethene        | 9.69  | 114   | 119352          | 51.16 | ug/l  | 98         |
| 10)          | l.l-Dichloroethane        | 13.34 | 194   | 223259          | 51.65 |       | 38         |
| 11)          | cis-1,2-Dichloroethene    | 14.98 | 230   | 144327          | 51.78 | •     | 98         |
| 12)          | trans-1.2-Dichloroethene  | 12.07 | 166   | 139566          | 52.02 | _     | 98         |
| 13)          | Chloroform                | 15.39 | 239   | 254858          | 51.13 |       | 94         |
| 14)          | 1.2-Dichloroethane-d4     | 17.17 | 278   | 108815          | 49.16 | ug/1  | 7.5        |
| 15)          | 1,2-Dichloroethane        | 17.40 | 283   | 133431          | 48.61 | -     | 9.7        |
| 16)          | #1.4-Difluorobenzene      | 18.13 | 299   | 428026          | 50.00 |       | 7.8        |
| <b>17</b> )  | 2-Butanone                | 14.53 | 220   | 33012           | 44.31 | -     | 9.7        |
| 18)          | 1,1,1-Trichloroethane     | 16.40 | 261   | 230972          | 49.10 | _     | 93         |
| 19)          | Carbon Tetrachloride      | 16.99 | 274   | 218968          | 49.28 | -     | 96         |
| 20)          | Bromodichloromethane      | 19.91 | 338   | 230121          | 47.87 | -     | 93         |
| 21)          | 1,2-Dichloropropane       | 19.36 | 326   | 141026          | 49.84 | •     | 98         |
| 22)          | cis-1,3-Dichloropropene   | 21.19 | 366   | 193765          | 50.12 | -     | 95         |
| 23)          | Trichloroethene           | 18.91 | 316   | 20009 <b>7M</b> | 50.25 | -     |            |
| <b>24</b> )  | Benzene                   | 17.45 | 284   | 396031          | 49.96 | -     | 100        |
| 25)          | Dibromochloromethane      | 24.01 | 428   | 212465          | 47.12 |       | 9 2        |
| 26)          | 1.1,2-Trichloroethane     | 22.74 | 400   | 121213          | 46.99 | _     | 88         |
| 27)          | trans-1,3-Dichloropropene | 22.37 | 392   | 153144          | 44.86 |       | 95         |
| 28)          | Bromoform                 | 27.76 | 510   | 151418          | 46.31 | -     | 96         |
| 29)          | ÷Chlorobenzene-d5         | 25.38 | 458   | 353989          | 50.00 | -     | 86         |
| 30)          | 2-Hexanone                | 22.78 | 401   | 56256           | 45.26 | -     | 80         |
| 31)          | 4-Methyl-2-pentanone      | 20.68 | 355   | 90142M          | 45.71 |       | 0.5        |
| 32)          | Tetrachloroethene         | 23.51 | 417   | 186308          |       | -     | 95         |
| 33)          | 1,1,2,2-Tetrachloroethane | 28.17 |       | 136519          | 46.56 |       | 90         |
| <b>4</b> 34) | Toluene-d8                | 21.78 | 379   | 428664          | 50.13 |       | 93         |
| 35)          | Toluene                   | 21.96 | 383   | 479683          | 50.23 | ~     | 99         |
| 36)          | Chlorobenzene             | 25.47 | 460   | 370179          | 51.07 | _     | 95         |
| 37)          | Bromofluorobenzene        | 28.35 | 523   | 249245          | 52.04 | -     | 7 9<br>6 0 |
| 38)          | Ethylbenzene              | 25.61 | 463   | 182260M         | 45.62 | -     | 69         |
| 39)          | Styrene                   | 26.93 | 492   | 375243          | 51.41 | _     | 83         |
| _ 40)        | m.p-Xylene                | 25.79 | 467   | 472258          | 54.03 |       | 89         |
| 41)          | o-Xylene                  | 26.84 | 490   | 221811          | 50.74 | ug/1  | 90         |

^{*} Compound is ISTD

# VOLATIL: ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

| Lab | Name: | ACCREDITED | LAB3, | INC. | Contract: |  |
|-----|-------|------------|-------|------|-----------|--|
|     |       |            |       |      |           |  |

Lab Code: 11109 Case No.: SAS No.: SDG No.:

Lab File ID: >C0699 BFB Injection Date: 10/07/98

Instrument ID: HP5970BC BFB Injection Time: 09:18

GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) Y

| m/e                                              | ION ABUNDANCE CRITERIA                                                                                                                                                                                                              | % RELATIVE<br>ABUNDANCE                                                                          |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 50<br>75<br>95<br>96<br>173<br>174<br>175<br>176 | 8.0 - 40.0% of mass 95 30.0 - 66.0% of mass 95 Base peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 50.0 - 120.0% of mass 95 4.0 - 9.0% of mass 174 93.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176 | 17.8<br>46.9<br>100.<br>6.8<br>0.0( 0.0 )1<br>92.2<br>6.5( 7.0 )1<br>90.3( 97.9)1<br>6.0( 6.6 )2 |
| I                                                | 1-Value is % mass 174 2-Value is % mass 174                                                                                                                                                                                         | ass 176                                                                                          |

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| 1        | EPA        | LAB        | LAB     | DATE     | TIME      |
|----------|------------|------------|---------|----------|-----------|
| 1        | SAMPLE NO. | SAMPLE ID  | FILE ID | ANALYZED | ANALYZED  |
| 1        | SAMPLE NO. | SAME DE 1D |         | ANADIZED | ANADI 250 |
| 01       | VSTD050    | VSTD050    | >C0700  | 10/07/98 | 09:37     |
| 02       | VSTD020    | VSTD020    | >C0701  | 10/07/98 | 10:41     |
| 03       | VSTD010    | VSTD010    | >C0702  | 10/07/98 | 11:16     |
| 04       | VSTD100    | VSTD100    | >C0703  | 10/07/98 | 11:52     |
| 05       | VSTD200    | VSTD200    | >C0704  | 10/07/98 | 12:27     |
| 06       | VBLKC79    | VBLKC79    | >C0706  | 10/07/98 | 14:13     |
| 07       | HBLK       | HBLK       | >C0707  | 10/07/98 | 15:04     |
| 80       | BLANKMS    | BLANKMS    | >C0711  | 10/07/98 | 17:46     |
| 09       | BLANKMSD   | BLANKMSD   | >C0712  | 10/07/98 | 18:32     |
| 10       |            |            |         |          |           |
| 11       |            |            |         |          |           |
| 12       |            |            |         |          |           |
| 13       |            |            |         |          |           |
| 14       |            |            |         |          |           |
| 15       |            |            |         |          |           |
| 16       |            |            |         |          |           |
| 17<br>18 |            |            |         |          |           |
| 19       |            |            |         |          |           |
| 20       |            |            |         |          |           |
| 21       |            |            |         |          |           |
| 22       |            |            |         |          |           |
| 22       |            |            |         |          |           |

page 1 of 1

### 5A VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK BROMOFLUOROBENZENE (BFB)

| Lab Name | : ACCREDITED | LABS, | INC. | Contract: |  |
|----------|--------------|-------|------|-----------|--|
|          |              |       |      |           |  |

Lab Code: 11109 Case No.: 1933 SAS No.: SDG No.:

Lab File ID: >C0732 BFB Injection Date: 10/09/98

Instrument ID: HP5970BC BFB Injection Time: 08:23

■ GC Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) Y

| m/e                                                     | ION ABUNDANCE CRITERIA                                                                                                                                                                                                              | % RELATIVE<br>ABUNDANCE                                                                          |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 50<br>75<br>95<br>96<br>173<br>174<br>175<br>176<br>177 | 8.0 - 40.0% of mass 95 30.0 - 66.0% of mass 95 Base peak, 100% relative abundance 5.0 - 9.0% of mass 95 Less than 2.0% of mass 174 50.0 - 120.0% of mass 95 4.0 - 9.0% of mass 174 93.0 - 101.0% of mass 174 5.0 - 9.0% of mass 176 | 16.1<br>44.4<br>100.<br>6.7<br>0.0( 0.0 )1<br>90.5<br>6.6( 7.3 )1<br>87.8( 97.0)1<br>5.9( 6.7 )2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

|                                                                                                    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|----------------------------------------------------------------------------------------------------|-------------------|------------------|----------------|------------------|------------------|
| 01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>09<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17 |                   |                  |                | i e              | 1                |
| 19<br>20<br>21<br>22                                                                               |                   |                  |                |                  |                  |

## 1A

|       | VOLA' LL | E ORGANICS | ANALYSIS  | DATA | SHEET |         |   |
|-------|----------|------------|-----------|------|-------|---------|---|
| ויבוי | O LARS.  | TNC        | Contract: |      |       | VBLKC81 | - |

| Lab | Name: | ACCREDITED | LAB3,   | INC. | Contra | act: |     |      |  |
|-----|-------|------------|---------|------|--------|------|-----|------|--|
| Lab | Code: | 11109      | Case No | ).:  | SAS N  | lo.: | SDG | No.: |  |

Matrix: (soil/water) SOIL Lab Sample ID: VBLKC81

Lab File ID: >C0734 Sample wt/vol: 5.0 (q/mL) G

Date Received: 10/09/98 Level: (low/med) LOW

Date Analyzed: 10/09/98 % Moisture: not dec.

Dilution Factor:  $0.53 \, (mm)$ GC Column: RTX-502 ID:

Soil Aliquot Volume: (uL) Soil Extract Volume: ____(uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (uq/L or ug/Kq) UG/KG Q 74-87-3----(hloromethane 10 U 10 U 75-01-4-----Vinyl Chloride 10 11 75-00-3-----(hloroethane 10 Ū 75-09-2----Nethylene Chloride 6 U 67-64-1-----1.cetone 10 75-15-0-----Carbon Disulfide U 10 75-35-4----, 1-Dichloroethene 10 U 75-34-3-----, 1-Dichloroethane Ħ 10 540-59-0----, 2-Dichloroethene (total) IJ 10 67-66-3----Chloroform U 10 107-06-2----, 2-Dichloroethane 10 U 78-93-3-----2-Butanone U 10 71-55-6-----1,1,1-Trichloroethane U 10 56-23-5----Carbon Tetrachloride 10 U 75-27-4----3romodichloromethane 10 Ù. 78-87-5----1,2-Dichloropropane 10 ÌΪ 10061-01-5----cis-1,3-Dichloropropene 10 TT 79-01-6----- Frichloroethene TT 10 124-48-1-----Dibromochloromethane 10 TT 79-00-5----1,1,2-Trichloroethane TT 10 Π 71-43-2----Benzene 10 10061-02-6----trans-1,3-Dichloropropene U 10 75-25-2-----Bromoform 10 TI 108-10-1----4-Methyl-2-Pentanone U 10 Ū 591-78-6----2-Hexanone 10 Ù 127-18-4----Tetrachloroethene 10 79-34-5----1,1,2,2-Tetrachloroethane 10 U 108-88-3-----Toluene Ū 10 108-90-7----- Chlorobenzene 10 U Ù 100-41-4-----Ethylbenzene 10 10 U

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10

EPA SAMPLE NO

### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

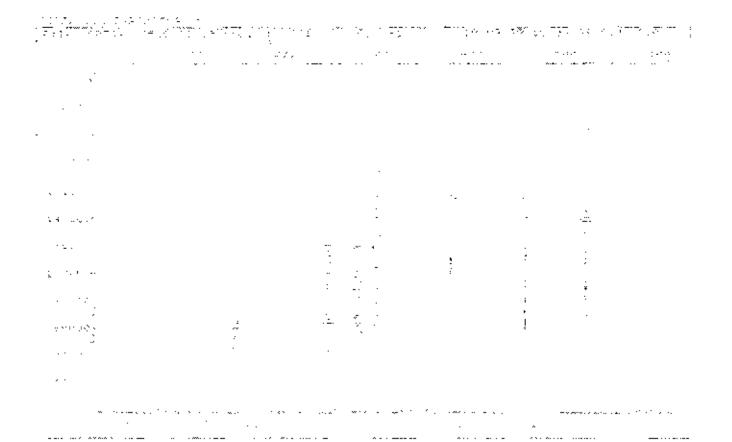
EPA SAMPLE NO

|   | Lab Name: ACCREDITED LABS, INC.  | Contract:             | ABTKC81  |
|---|----------------------------------|-----------------------|----------|
|   | Lab Code: 11109 Case No.:        | SAS No.: SDG No       | ·:       |
|   | Matrix: (soil/water) SOIL        | Lab Sample ID: V      | BLKC81   |
| _ | Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >        | C0734    |
|   | Level: (low/med) LOW             | Date Received: 1      | .0/09/98 |
|   | % Moisture: not dec. 0           | Date Analyzed: 1      | .0/09/98 |
|   | GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor:      | 1.0      |
| ľ | Soil Extract Volume:(uL)         | Soil Aliquot Vol      | ume:(uL) |
|   |                                  | CONCENTRATION UNITES. |          |

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

|                     | RT                  | EST. CONC.               | Q                           |
|---------------------|---------------------|--------------------------|-----------------------------|
| Unknown Hydrocarbon | 9.31                | 14                       | ===<br> <br>  N             |
|                     |                     |                          |                             |
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| - [                 |                     |                          | ************                |
|                     |                     |                          |                             |
|                     | Unknown Hydrocarbon | Unknown Hydrocarbon 9.31 | Unknown Hydrocarbon 9.31 14 |



Data File: 5007% (10) - Onan Octob File: Cotto (5)

Name: Validous Validous

Mixe: 19209798 19709798 5.0 8.0 2 2 2.0

In Wile: IDPS22::St

Title: Accredited Late VOA ID File - STX 502.2 105m U.Simm 3.Dum

Last Calibration: 981009 09:40

Operator TD: WHELTAM

Quant Time: 981009 #:04 Injected at: 981009 :9:31

 Operator ID: WILLIAM
 Ouant Rev: 6
 Quant Time: 981909 10:04

 Coutput File: ^C0734::OT
 Injected at: 981009 09:31

Data File: >C0734::C1 Dilution Factor: 1.00000

Name: VBLKC81 VBLKC81

■Misc: 10/09/98 10/09/98 5.0 1.0 L 7.0

ID File: IDPS22::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um Last Calibration: 981009 09:40

|             | Compound              | R.T.  | Scan# | Area    | Conc  | Units | q   |
|-------------|-----------------------|-------|-------|---------|-------|-------|-----|
|             |                       |       |       |         |       |       |     |
| !)          | *Bromochloromethane   | 15.79 | 248   | 70904   | 50.00 | ug/l  | 88  |
| 6)          | Methylene Chloride    | 11.23 | 148   | 12888   | 5.78  | ug/1  | 90  |
| <b>14</b> ) | l.2-Dichloroethane-d4 | 17.20 | 279   | 90684   | 47.91 | ug/l  | 83  |
| 16)         | #1.4-Difluorobenzene  | 18.11 | 299   | 388671  | 50.00 | ug/l  | 7.6 |
| 29)         | ¢Chlorobenzene-d5     | 25.41 | 459   | 318283  | 50.00 | ug/l  | 89  |
| _34)        | Toluene-d8            | 21.76 | 379   | 374453  | 48.58 | ug/1  | 94  |
| 37)         | Bromofluorobenzene    | 28.33 | 523   | 199939M | 44.61 | ug/l  |     |

^{*} Compound is ISTD

Data File: 19807787241 Name: 智能LENSI - 28LK881 - Chauman Champun Filon - Childenia:

Quant Time: 901009 10:04 Quant ID File: 108025::00 Injected at: 981009 09:31 List Calibration: 981009 09:40

Compound No: 1 (1970)

Companyed Name: Eromachiaromethane

Span Number: 248

Datestion Time: 15.79 mis.

Osant lan; (28.0) AT⊁4: 28904

Concentration: 50.00 we/1

q~value: 88

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Compound No: 6

Composed Maxe: Mathylene Chipits

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Retention Time: 11-23 min

Quant lont 84.8 ACRAT IZBAR

Concentration: 5.78 og/1

q-value: 40

Bara Palmi Godijaciji Ought Gathut ប៉ុន្តែ។ ប៉ុន្តែ។ ប៉ុន្តែ។ ប៉ុន្តិ Name: VMLSCS: VMLSCD: Mise: 10/09/30 (6/89/69 5.0 1.3 (... Ought Time: 481000 jaxis Segmi to file: 1255/2::50 Interspot at: 98,465 8815. Lass Catibration: 751009 08140 ಕರ್ಮಾರಾಣದ No: 14 Compound Name: 1.2.010h)accorbanc-de Sean Numbert XXV Resemblion Times: 17.20 mile.

Quant Ion: 55.9 Arma: 98684

Concentration: 47.41 ug/l

q-valce: 83

Compound No. 16 (ISTD)

Composed Experior, 4-Diffustribentone

Scan Numbert 299

Reteation Time: (8.); min.

Quant lon( 114.0 Area: 388671

Concentration: 50.00 up/1

q-value: 76

Data File: Postacid: Dame Onion: File: TC0/382 QT

Name: VELECE: VELECE;

Ouant Time: 48:009 10:04 Ouant 19 File: 10P322::58 Injected at: 48:009 09:31 Last Calibration: 88:009 09:40

Compound Not 29 (1975)

Compayed Mazz: Chiocobenzade-di-

Scam Number: 45%

Reconcion Time: 25.41 win.

Quant Ion: !17.# Area: 3(8283

Concestration: 50.00 ug/1

q≈value; 69

Bata Files (CD734;:0) - Quant Duther films (49834::07

Name: VhlKCX: VhlKCSE

Compound Not 34

Composited Masser Tellswise-48.

Scan Number: 374

Retention Timo: 21.74 min.

Quant lone 98.0 Arest 334453

Concentration: 48.58 ug/1

q-value: 94

And the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of t : .. 

Daga Pilms POUPEnsky Name: VRLKON( Vilkoni - Dead Output File: 198/340107

 Misc:
 10/04/98 [8/09/38 t.0 1.0 ].
 3.6

 Ought Time:
 98/008 [0:04 ].
 Ought ID File: IDPS22:000

 Injected art 98/009 (%:3)
 Last Calibration: 88/009 (%:40)

Compound Not 37

Compound Beams Browet indrohenzene.

Scan Rumbest 523

RACADCIDA Time: 36.13 min.

Quant ion: Wi. U Area: (99939M

Concentration: 44 61 ug/1

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# VOLATILE ORGANICS ANALYSIS DATA SHEET

| EPA | SAMPLE | $V_{-}$ |
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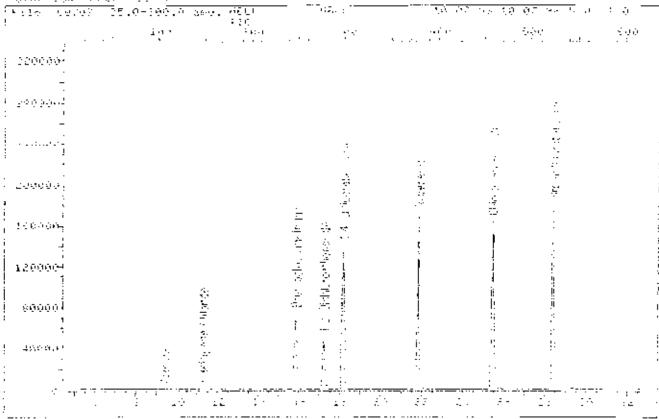
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| Lab Name: ACCREDITED LABS, INC.  | Contract: HBLK           |
|----------------------------------|--------------------------|
| Lab Code: 11109 Case No.:        | SAS No.: SDG No.:        |
| Matrix: (soil/water) SOIL        | Lab Sample ID: HBLK      |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >C0707      |
| Level: (low/med) LOW             | Date Received: 10/07/98  |
| % Moisture: not dec. (           | Date Analyzed: 10/07/98  |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0     |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL) |

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| 74-87-3(:hloromethane               | 10 U     |
|-------------------------------------|----------|
| 74-83-9                             | 10 - 0   |
| 75-01-4Vinyl Chloride               | 10   U   |
| 75-00-3Chloroethane                 |          |
| 75-09-2                             | 13   B   |
| 67-64-1Acetone                      | 6 J B    |
| 75-15-0Carbon Disulfide             | 10   0   |
| 75-35-4                             |          |
| 75-34-3                             | 10 -0-   |
| 540-59-0L,2-Dichloroethene (total)  | 10 -0    |
| 67-66-3                             | 10 -0    |
| 107-06-21,2-Dichloroethane          | 10 -0-   |
| 78-93-32-Butanone                   | 10 -0-   |
| 71-55-61,1,1-Trichloroethane        |          |
| 56-23-5Carbon Tetrachloride         | 10 -0-   |
| 75-27-4Bromodichloromethane         | 10 -0-   |
| 78-87-51,2-Dichloropropane          |          |
| 10061-01-5cis-1,3-Dichloropropene   |          |
| 79-01-6                             |          |
| 124-48-1Dibromochloromethane        | 10   U   |
| 79-00-51,1,2-Trichloroethane        |          |
| 71-43-2Benzene                      | 10 -0-1  |
| 10061-02-6trans-1,3-Dichloropropene | 10 -0-   |
| 75-25-2Bromoform                    | 10 -0-   |
| 108-10-14-Methyl-2-Pentanone        | 10 -0-   |
| 591-78-62-Hexanone                  | 10  -0-  |
| 127-18-4Tetrachloroethene           |          |
| 79-34-51,1,2,2-Tetrachloroethane    |          |
| 108-88-3Toluene                     |          |
| 108-88-3                            |          |
| 100-41-4Ethylbenzene                | 10 -0-   |
| 100-41-4                            | -  10  0 |
| 1330-20-7Xylene (total)             |          |
| 1330-20-7                           |          |
|                                     | .        |



Data File: 200707::Cl Quant Output File: ^C0707::D2

Name: HLLK HBLK

Misc: 10/07/98 10/07/96 5.0 1.0 L 7.0

Id File: IDP522::50

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0mm

Last Calibration: 981007 13:12

Operator ID: WILLIAM

Quant Time: 981007 15:37 Injected at: 981007 15:04

Quant Rev: 6 Quant Time: 981007 15:37 Operator ID: WILLIAM Injected at: 981007 15:04 Output File: ^C0707::D2

Dilution Factor: 1.00000 bata File: >C0707::C1

Name: HBLK HBLK Misc: 10/07/98 10/07/98 5.0 1.0 L 7.0

ID File: IDPS22::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981007 11:12

|     | Compound              | R.T.  | Scan# | Area    | Conc  | Units | q  |
|-----|-----------------------|-------|-------|---------|-------|-------|----|
| 1)  | *Bromochloromethane   | 15.82 | 249   | 93265M  | 50,00 | uazi  |    |
| ō)  | Methylene Chloride    | 11.27 | 149   | 37258   | 13.30 | •     | 87 |
| 7)  | Acetone               | 9.40  | 108   | 2207    | 5.54  | ug/l  | 81 |
| 14) | 1,2-Dichloroethane-d4 | 17.19 | 279   | 120559  | 47.61 | ug/l  | 75 |
| 16) | *1,4-Difluorobenzene  | 18.15 | 300   | 471439  | 50.00 | ug/l  | 77 |
| 29) | *Chlorobenzene-d5     | 25.40 | 459   | 388435  | 50.00 | ug/l  | 83 |
| 34) | Toluene-d8            | 21.80 | 380   | 456352  | 48.63 | ug/l  | 94 |
| 37) | Bromofluorobenzene    | 28.37 | 524   | 248873M | 47.36 | ug/l  |    |

^{*} Compound is ISTD

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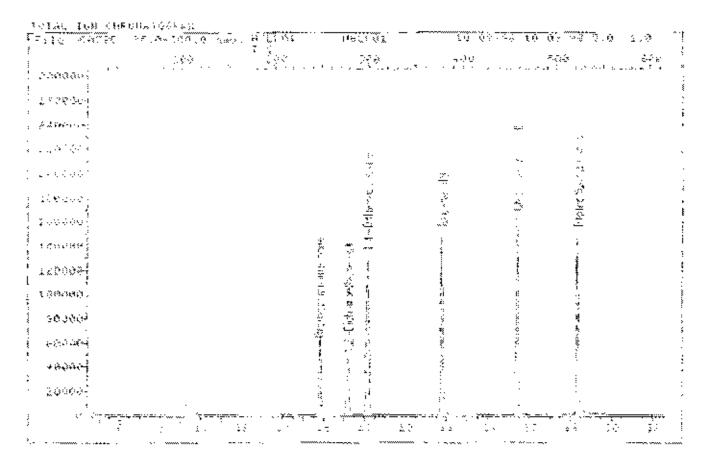
|   | Lab Name: ACCREDITED LABS, INC. | Contract:            | HBLK01   |
|---|---------------------------------|----------------------|----------|
|   | Lab Code: 11109 Case No.:       | SAS No.: SDG No      | ).:      |
| - | Matrix: (soil/water) SOIL       | Lab Sample ID: H     | HBLK01   |
|   | Sample wt/vol: 5.0 (g/mL)       | G Lab File ID: >     | C0735    |
| • | Level: (low/med) LOW            | Date Received: 1     | 10/09/98 |
|   | % Moisture: not dec. 0          | Date Analyzed: 1     | .0/09/98 |
| ~ | GC Column: RTX-502 ID: 0.53 (n  | m) Dilution Factor:  | 1.0      |
|   | Soil Extract Volume:(uL)        | Soil Aliquot Vol     | ume:(uL) |
|   | •                               | CONCENTRATION UNITS: |          |

(ug/L or ug/Kg) UG/KG

COMPOUND

CAS NO.

| 74-87-3    | Chloromethane              | 10 U   |
|------------|----------------------------|--------|
| 74-83-9    | Bromomethane               | 10 U   |
| 75-01-4    | Vinyl Chloride             | 10 0   |
| 75-00-3    | Chloroethane               | 10 0   |
| 75-09-2    | Methylene Chloride         | 10 U   |
| 67-64-1    |                            | 10     |
| 75-15-0    | Carbon Disulfide           | 10 U   |
| 75-35-4    | 1,1-Dichloroethene         | 10 U   |
|            | 1,1-Dichloroethane         | 10 - U |
|            | 1,2-Dichloroethene (total) | 10     |
|            | Chloroform                 | 10 0   |
|            | 1,2-Dichloroethane         | 10 U   |
|            | 2-Butanone                 | 10 0   |
|            | 1,1,1-Trichloroethane      | 10 0   |
|            | Carbon Tetrachloride       | 10 U   |
| 75-27-4    | Bromodichloromethane       | 10 0   |
|            | 1,2-Dichloropropane        | 10 U   |
|            | cis-1,3-Dichloropropene    | 10 -0  |
| 79-01-6    | Trichloroethene            | 10 U   |
| 124-48-1   | Dibromochloromethane       | 10 0   |
|            | 1,1,2-Trichloroethane      | 10 0   |
| 71-43-2    |                            | 10 0   |
| 10061-02-6 | trans-1,3-Dichloropropene  | 10   U |
| 75-25-2    | Bromoform                  | 10 U   |
| 108-10-1   | 4-Methyl-2-Pentanone       | 10 U   |
|            | 2-Hexanone                 | 10 T   |
| 127-18-4   | Tetrachloroethene          | 10 U   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane  | 10 T   |
| 108-88-3   |                            | 10 U   |
| 108-90-7   | Chlorobenzene              | 10 U   |
| 100-41-4   | Ethylbenzene               | 10 TU  |
| 100-42-5   | Styrene                    | 10 0   |
|            | Xylene (total)             | 10 TU  |



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Name: HBLK01 HDL401

#Miss: 10/09/98 10/09/48 5.0 1.0 & 7.0

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Titie: Acquedited Lab: VoA ID file - RTM 502.2 105m 6.53mm 3.8um

Last Calibration: 981)09 09:40

Operator in: Wibliah

Quant Time: 381009 (0:56) Injected &t: 381009 (0:23

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981009 10:56

 Output File: ^C0735::D2
 Injected at: 981009 10:23

 Dilution Factor: 1.00000

Name: HBLK01 HBLK01

iisc: 10/09/98 10/09/98 5.0 1.0 L 7.0

ID File: IDPS22::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

__ast Calibration: 981009 09:40

|            | Compound              | R.T.  | Scan# | Area   | Conc  | Units | P  |
|------------|-----------------------|-------|-------|--------|-------|-------|----|
| <b>1</b> ) | *Bromochloromethane   | 15.77 | 247   | 82645  | 50.00 | ug/l  | 93 |
| 14)        | 1,2-Dichloroethane-d4 | 17.18 | 278   | 110709 | 50.18 | ug/l  | 77 |
| .6)        | *1,4-Difluorobenzene  | 18.14 | 299   | 432880 | 50.00 | ug/l  | 79 |
| 29)        | *Chlorobenzene-d5     | 25.39 | 458   | 351982 | 50.00 | ug/l  | 87 |
| 34)        | Toluene-d8            | 21.79 | 379   | 423210 | 49.65 | ug/l  | 94 |
| 37)        | Bromofluorobenzene    | 28.35 | 523   | 231497 | 46.70 | ug/l  | 82 |

^{*} Compound is ISTD

### 1A VOLFTILE ORGANICS ANALYSIS DATA SHEET

| Lab Name: ACCREDITED LAIS, INC.  | Contract:BLANKMS         |
|----------------------------------|--------------------------|
| Lab Code: 11109 Case No.:        | SAS No.: SDG No.:        |
| Matrix: (soil/water) SOlL        | Lab Sample ID: BLANKMS   |
| Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >C0711      |
| Level: (low/med) LOW             | Date Received: 10/07/98  |
| % Moisture: not dec. (           | Date Analyzed: 10/07/98  |
| GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0     |
| Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL) |

CONCENTRATION UNITS:

(CAS NO. (COMPOUND (ug/L or ug/Kg) UG/KG Q

| 74-87-3Chloromethane                | 10 U     |
|-------------------------------------|----------|
| 74-83-9Bromomethane                 | 10 -     |
| 75-01-4Vinyl Chloride               | 10 - 0   |
| 75-00-3Chloroethane                 | 10 -0    |
| 75-09-2                             | 5 J B    |
| 67-64-1Acetone                      | 10   0   |
| 75-15-0Carbon Disulfide             | 10 -0-   |
| 75-35-4                             | 45       |
| 75-34-3                             | 10 0     |
| 540-59-0                            | 10 -0-   |
| 67-66-3Chloroform                   | 10 -0    |
| 107-06-2l,2-Dichloroethane          | 10   -0- |
| 78-93-32-Butanone                   | 10 -0-   |
| 71-55-6                             | 10 -0-   |
| 56-23-5Carbon Tetrachloride         | 10 -0-   |
| 75-27-43romodichloromethane         | 10 -0-   |
| 78-87-51,2-Dichloropropane          | 10 -0-   |
| 10061-01-5cis-1,3-Dichloropropene   | 10  -0-  |
| 79-01-6                             | 45       |
| 124-48-1Dibromochloromethane        | 10   U   |
| 79-00-51,1,2-Trichloroethane        | 10  -U-  |
| 71-43-2Benzene                      | 47       |
| 10061-02-6trans-1,3-Dichloropropene | 10 -     |
| 75-25-2Bromoform                    | 10 -0-   |
| 108-10-14-Methyl-2-Pentanone        | 10  -0-  |
| 591-78-62-Hexanone                  | 10  -0-  |
| 127-18-4Tetrachloroethene           | 10   -0  |
| 79-34-51,1,2,2-Tetrachloroethane    | 10   -0  |
|                                     | 10 48 -  |
| 108-88-3Toluene                     | 48       |
| 108-90-7Chlorobenzene               | 10 -     |
| 100-41-4 Ethylbenzene               | 10 -0-   |
| 100-42-5 Styrene                    | 10 -0    |
| 1330-20-7 Xylene (total)            |          |
|                                     |          |

EPA SAMPLE 1

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Q

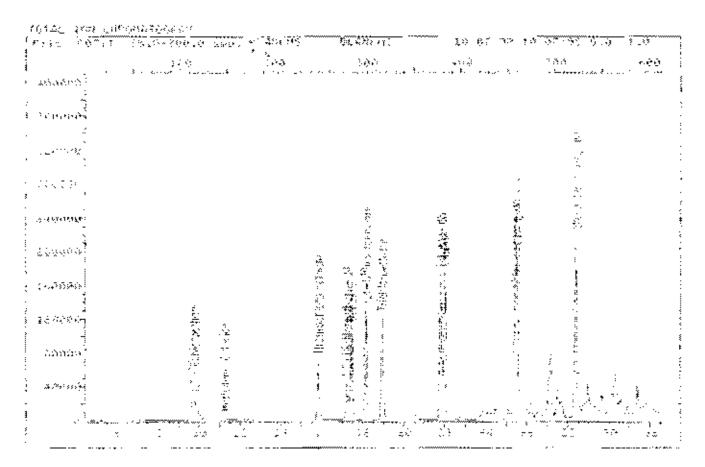
|   | Lab Name: ACCREDITED LABS, INC.  | Contract: BLANKMSD       |
|---|----------------------------------|--------------------------|
|   | Lab Code: 11109 Case No.:        | SAS No.: SDG No.:        |
|   | Matrix: (soil/water) SOIL        | Lab Sample ID: BLANKMSD  |
|   | Sample wt/vol: 5.0 (g/mL) G      | Lab File ID: >C0712      |
|   | Level: (low/med) LOW             | Date Received: 10/07/98  |
|   | % Moisture: not dec. 0           | Date Analyzed: 10/07/98  |
| , | GC Column: RTX-502 ID: 0.53 (mm) | Dilution Factor: 1.0     |
|   | Soil Extract Volume:(uL)         | Soil Aliquot Volume:(uL) |

COMPOUND

CAS NO.

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| 74-87-3Chloromethane                | 10 U                |
|-------------------------------------|---------------------|
| 74-83-9Bromomethane                 | 10 TU               |
| 75-01-4Vinyl Chloride               | 10   U              |
| 75-00-3Chloroethane                 | 10 U                |
| 75-09-2Methylene Chloride           | 6 J B               |
| 67-64-1Acetone                      | 10   $\overline{U}$ |
| 75-15-0Carbon Disulfide             | 10 U                |
| 75-35-41,1-Dichloroethene           | 46 -                |
| 75-34-31,1-Dichloroethane           | 10 U                |
| 540-59-01,2-Dichloroethene (total)  | 10 U                |
| 67-66-3Chloroform                   | 10 U                |
| 107-06-21,2-Dichloroethane          | 10   U              |
| 78-93-32-Butanone                   | 10   U              |
| 71-55-61,1,1-Trichloroethane        | 10 U                |
| 56-23-5Carbon Tetrachloride         | 10 U                |
| 75-27-4Bromodichloromethane         | 10 -                |
| 78-87-51,2-Dichloropropane          | 10 U                |
| 10061-01-5cis-1,3-Dichloropropene   | 10 U                |
| 79-01-6Trichloroethene              | 46                  |
| 124-48-1Dibromochloromethane        | 10 0                |
| 79-00-51,1,2-Trichloroethane        | 10 U                |
| 71-43-2Benzene                      | 48                  |
| 10061-02-6trans-1,3-Dichloropropene | 10 U                |
| 75-25-2Bromoform                    | 10   U              |
| 108-10-14-Methyl-2-Pentanone        | 10 0                |
| 591-78-62-Hexanone                  | 10 U                |
| 127-18-4Tetrachloroethene           | 10 U                |
| 79-34-51,1,2,2-Tetrachloroethane    | 10 U                |
| 108-88-3Toluene                     | 49                  |
| 108-90-7Chlorobenzene               | 51                  |
| 100-41-4Ethylbenzene                | 10 U                |
| 100-42-5Styrene                     | 10 U                |
| 1330-20-7Xylene (total)             | 10 U                |
|                                     |                     |
|                                     | ·                   |



Data File: /00711::01 Quest Output File: 'Köfil::DZ

Name BLANKMS BLAJKMS

Mise: 10/07/98 10/07/98 5.0 1.0 D 7.0

Id File: IDPS22::50

Title: Accredited Lab: VOA ID tile - R)X 502.2 105m 0.53mm 3.0um

Lact Calibration: 381307 45:12

Operator ID: WillIAM

Quant Time: 961007 1::25 Injected at: 961007 1::46

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981007 18:25

 Output File: ^C0711::D2
 Injected at: 981007 17:46

 Data File: >C0711::C1
 Dilution Factor: 1.00000

Name: BLANKMS BLANKMS

fisc: 10/07/98 10/07/98 5.0 1.0 L 7.0

ID File: IDPS22::SC

Fitle: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981007 13:12

|             | Compound              | R.T.  | Scan# | Area    | Conc  | Units | q   |
|-------------|-----------------------|-------|-------|---------|-------|-------|-----|
| <b>=</b> 1) | *Bromochloromethane   | 15.81 | 248   | 88514   | 50.00 | ug/l  | 90  |
| 6)          | Methylene Chloride    | 11.25 | 148   | 14099   | 5.30  | ug/l  | 85  |
| 9)          | 1,1-Dichloroethene    | 9.75  | 115   | 115237  | 45.49 | ug/l  | 96  |
| <b>14</b> ) | 1,2-Dichloroethane-d4 | 17.22 | 279   | 113403  | 47.19 | ug/l  | 80  |
| 16)         | *1,4-Difluorobenzene  | 18.14 | 299   | 462471  | 50.00 | ug/l  | 76  |
| 23)         | Trichloroethene       | 18.91 | 316   | 193404M | 44.95 | ug/l  |     |
| 24)         | Benzene               | 17.45 | 284   | 403861  | 47.15 | ug/l  | 100 |
| 29)         | *Chlorobenzene-d5     | 25.39 | 458   | 382705  | 50.00 | ug/l  | 82  |
| 34)         | Toluene-d8            | 21.78 | 379   | 453499  | 49.05 | ug/l  | 93  |
| 35)         | Toluene               | 21.97 | 383   | 490552  | 47.52 | ug/l  | 99  |
| 36)         | Chlorobenzene         | 25.48 | 460   | 385537  | 49.20 | ug/l  | 95  |
| 37)         | Bromofluorobenzene    | 28.35 | 523   | 250801M | 48.44 | ug/l  |     |

**■** A Compound is ISTD

Data files >00712::Ci Quant Castpur File: 104712::D2

Name: BLANKMSD BLANKKSD

Misc: 10/07/98 10/07/98 5.0 1.0 2 7.0

Id File: IDPS22::50

Title: Accredited Rab: VOA TO File RTX 502.2 185m 0.55mm 3.6mm

Last Calibration: 981007 13:12

Operator ID: WILSIAM

Quant Time: 981007 i ): 10 Injected at: 961007 i ): 32

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981007 19:10

 Output File: ^C0712::D2
 Injected at: 981007 18:32

 Dilution Factor: 1.00000

Name: BLANKMSD BLANKMSD

iisc: 10/07/98 10/07/98 5.0 1.0 L 7.0

ID File: IDPS22::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

.ast Calibration: 981007 13:12

|             | Compound              | R.T.  | Scan# | Area    | Conc  | Units | q   |
|-------------|-----------------------|-------|-------|---------|-------|-------|-----|
|             |                       |       |       |         |       |       |     |
| -1)         | *Bromochloromethane   | 15.82 | 249   | 81189   | 50.00 | ug/l  | 89  |
| 6)          | Methylene Chloride    | 11.27 | 149   | 13374   | 5.48  | ug/l  | 86  |
| 9 j         | 1,1-Dichloroethene    | 9.76  | 116   | 107444  | 46.25 | ug/l  | 97  |
| 4)          | 1,2-Dichloroethane-d4 | 17.19 | 279   | 105626  | 47.92 | ug/l  | 74  |
| <b>7</b> 6) | *1,4-Difluorobenzene  | 18.15 | 300   | 426106  | 50.00 | ug/l  | 76  |
| 23)         | Trichloroethene       | 18.93 | 317   | 181506M | 45.79 | ug/l  |     |
| 4)          | Benzene               | 17.47 | 285   | 378183  | 47.92 | ug/l  | 100 |
| <b>2</b> 9) | *Chlorobenzene-d5     | 25.40 | 459   | 352303  | 50.00 | ug/l  | 84  |
| 34)         | Toluene-d8            | 21.80 | 380   | 418641  | 49.i9 | ug/l  | 94  |
| -5)         | Toluene               | 21.98 | 384   | 464943  | 48.92 | uq/l  | 99  |
| <b>–</b> 6) | Chlorobenzene         | 25.49 | 461   | 365169  | 50.62 | uq/l  | 94  |
| 37)         | Bromofluorobenzene    | 28.37 | 524   | 223816M | 46.96 | ug/l  |     |

_* Compound is ISTD

### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

| Lab Name: ACCREDITED | LAES, INC. Co    | ntract:                                    | 16-20MS       |
|----------------------|------------------|--------------------------------------------|---------------|
| Lab Code: 11109      | Case No.: 1933 S | AS No.: SDG No                             | .:            |
| Matrix: (soil/water) | SOIL             | Lab Sample ID: 9                           | 811260MS      |
| Sample wt/vol: 5     | 5.0 (g/mL) G     | Lab File ID: >                             | C0741         |
| Level: (low/med) M   | 1ED              | Date Received: 1                           | 0/01/98       |
| % Moisture: not dec. | 9                | Date Analyzed: 1                           | 0/09/98       |
| GC Column: RTX-502   | ID: 0.53 (mm)    | Dilution Factor:                           | 1.0           |
| Soil Extract Volume: | 5000 (uL)        | Soil Aliquot Vol                           | ume: 250 (uL) |
| CAS NO.              | COMPOUND         | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q             |

| 74-87-3Chloromethane                | 220 U                 |
|-------------------------------------|-----------------------|
| 74-83-9Eromomethane                 | 220 U                 |
| 75-01-4Vinyl Chloride               | 220 U                 |
| 75-00-3Chloroethane                 | 220 U                 |
| 75-09-2Nethylene Chloride           | 130 J B               |
| 67-64-1                             | 330                   |
| 75-15-0Carbon Disulfide             | 220 U                 |
| 75-35-41,1-Dichloroethene           | 950 -                 |
| 75-34-31,1-Dichloroethane           | 220   U               |
| 540-59-01,2-Dichloroethene (total)  | 23   <del>-</del> j - |
| 67-66-3(hloroform                   | 220 - 0               |
| 107-06-21,2-Dichloroethane          | 220   U               |
| 78-93-32-Butanone                   | 320 -                 |
| 71-55-61,1,1-Trichloroethane        | 320   <del>U</del>    |
| 56-23-5(arbon Tetrachloride         | 220  U_               |
| 75-27-4                             | 220   U               |
| 78-87-51,2-Dichloropropane          | 220 — U               |
| 10061-01-5cis-1,3-Dichloropropene   | 220  u_               |
| 79-01-6                             | 2800                  |
| 124-48-1Iibromochloromethane        | 220 U                 |
| 79-00-51,1,2-Trichloroethane        | 220   <u>u</u> -      |
| 71-43-2                             | 1000                  |
| 10061-02-6trans-1,3-Dichloropropene | 220 U                 |
| 75-25-2                             | 220   <u>U</u>        |
| 108-10-1                            | 220 I—U               |
| 591-78-6:::-Hexanone                | 220 - <del>U</del>    |
| 127-18-4Cetrachloroethene           | 81 J                  |
| 79-34-5,1,2,2-Tetrachloroethane     | 220 - U               |
| 108-88-3Coluene                     | 1100 -                |
| 108-90-7Chlorobenzene               | 1000                  |
| 100-41-4Ethylbenzene                | 220 U                 |
| 100-42-5Styrene                     | 220  U                |
| 1330-20-7                           | 220                   |
| 1330-20 /                           |                       |
|                                     | ll                    |

16-20MSD

Lab Name: ACCREDITED LABS, INC. Contract: ____

Case No.: 1933 SAS No.: ____ Lab Code: 11109 SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9811260MSD

(g/mL) G 5.0 Lab File ID: Sample wt/vol: >C0742

Level: (low/med) MED Date Received: 10/01/98

% Moisture: not dec. Date Analyzed: 10/09/98

Dilution Factor: GC Column: RTX-502 ID: 0.53 (mm) 1.0

COMPOUND

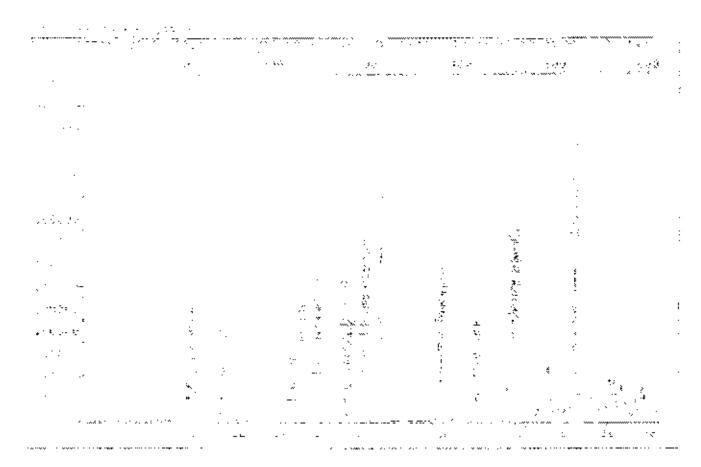
CAS NO.

Soil Aliquot Volume: 250 Soil Extract Volume: 5000 (uL) (uL)

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Q

| 74-87-3    | Chloromethane              | 220  | U                                             |
|------------|----------------------------|------|-----------------------------------------------|
| 74-83-9    | Bromomethane               | 220  | U_                                            |
| 75-01-4    | Vinyl Chloride             | 220  |                                               |
|            | Chloroethane               | 220  | n_                                            |
| 75-09-2    | Methylene Chloride         | 130  | $\overline{\mathbf{J}} \overline{\mathbf{B}}$ |
| 67-64-1    | Acetone                    | 400  |                                               |
| 75-15-0    | Carbon Disulfide           | 220  | U                                             |
| 75-35-4    | 1,1-Dichloroethene         | 990  |                                               |
| 75-34-3    | 1,1-Dichloroethane         | 220  | U                                             |
|            | 1,2-Dichloroethene (total) | 35   | J                                             |
|            | Chloroform.                | 220  | U                                             |
| 107-06-2   | 1,2-Dichloroethane         | 220  |                                               |
| 78-93-3    | 2-Butanone                 | 330  |                                               |
| 71-55-6    | 1,1,1-Trichloroethane      | 220  | U                                             |
| 56-23-5    | Carbon Tetrachloride       | 220  |                                               |
| 75-27-4    | Bromodichloromethane       | 220  | U                                             |
| 78-87-5    | 1,2-Dichloropropane        | 220  |                                               |
|            | cis-1,3-Dichloropropene    | 220  | U                                             |
|            | Trichloroethene            | 3100 |                                               |
| 124-48-1   | Dibromochloromethane       | 220  | U                                             |
| 79-00-5    | 1,1,2-Trichloroethane      | 220  | U                                             |
| 71-43-2    |                            | 1000 |                                               |
| 10061-02-6 | trans-1,3-Dichloropropene  | 220  | U                                             |
|            | Bromoform                  | 220  | U                                             |
| 108-10-1   | 4-Methyl-2-Pentanone       | 220  | U                                             |
|            | 2-Hexanone                 | 220  | U                                             |
|            | Tetrachloroethene          | 92   | J                                             |
| 79-34-5    | 1,1,2,2-Tetrachloroethane  | 220  | U                                             |
| 108-88-3   |                            | 1100 |                                               |
|            | Chlorobenzene              | 1100 |                                               |
|            | Ethylbenzene               | 220  | U                                             |
| 100-42-5   |                            | 220  |                                               |
| 1330-20-7  | Xylene (total)             | 220  |                                               |



Date File: 200741::01 Dant Supple File: "Cof41::OT

ស្តែសម្ដា មិស្តិ (ប្រជាជ្រាស្ត្រ 16-30MG)

Maskit \$433 10709758 1070,748 5.# \$48 6 5000 750

Id Pile: EDPS:2::50

Title: Accredited take VOA 15 file - STK 302.2 105m 0.53mm 3.0um

Last Calibration: 48thuv 09:40

Operator ID: WILLIAM

Ouant Time: 981009 #5:50 Injected at: 98:909 #5:10

#### QUANT REPORT

 Operator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 981009 15:50

 Output File: ^C0741::QT
 Injected at: 981009 15:10

■Data File: >C0741::Cl Dilution Factor: 1.00000

Name: 9811260MS 16-20MS

Misc: 1933 10/09/98 10/01/98 5.0 1.0 M 5000 250

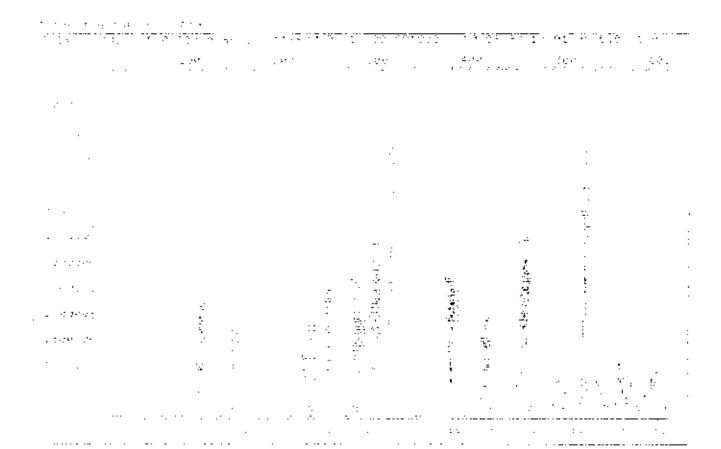
ID File: IDPS22::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981009 09:40

| Comp                  | ound        | R.T.  | Scan# | Area    | Conc   | Units | P   |
|-----------------------|-------------|-------|-------|---------|--------|-------|-----|
| ■ 1) *Bromochlorometh | ane         | 15.81 | 248   | 80006M  | 50.00  | ug/l  |     |
| 6) Methylene Chlor    | ide         | 11.25 | 148   | 14559   | 5.79   | ug/l  | 90  |
| 7) Acetone            |             | 9.47  | 109   | 5113    | 15.13  | ug/l  | 98  |
| 9) 1,1-Dichloroeth    | ene         | 9.70  | 114   | 100995  | 43.11  | ug/l  | 98  |
| 11) cis-1,2-Dichlor   | oethene     | 14.99 | 230   | 2984    | 1.05   | ug/l  | 97  |
| 14) 1.2-Dichloroeth   | a n e – d 4 | 17.18 | 278   | 104374  | 48.87  | ug/l  | 7.5 |
| lb) *1.4-Difluoroben  | zene        | 18.14 | 299   | 444186  | 50.00  | ug/l  | 7.8 |
| 17) 2-Butanone        |             | 14.58 | 221   | 10094   | 14.73  | ug/l  | 91  |
| 23) Trichloroethene   |             | 18.91 | 316   | 520533M | 125.34 | ug/l  |     |
| 24) Benzeno           |             | 17.45 | 284   | 383903  | 46.71  | ug/l  | 100 |
| ➡29) *Chlorobenzene-d | 5           | 25.39 | 458   | 359951  | 50.00  | ug/l  | 84  |
| 32) Tetrachloroethe   | ne          | 23.52 | 417   | 13897   | 3.67   | ug/l  | 93  |
| 34) Toluene-d8        |             | 21.79 | 379   | 432179  | 49.58  | ug/l  | 94  |
| 🕳 35) Toluene         |             | 21.97 | 383   | 473806  | 48.57  | ug/l  | 99  |
| 36) Chlorobenzene     |             | 25.48 | 460   | 360887  | 47.94  | ug/l  | 9.5 |
| 37) Bromofluorobenz   | e n e       | 28.36 | 523   | 254421M | 50.19  | ug/l  |     |

^{*} Compound is ISTD



Data File: 000742::01 Ouapt Output File: 100742::07

Name: 98:12:00MSD | 16 20MSD |

Misc: 1933 10/09/98 (0/01/98 5.0 1.0 Miscon 250

1d File: IDPS22::5C

Title: Accredited Labs VOA ID file - RTX 502.2 305m 0.53mm 3.0om

Last Calibration: 981005 09:40

Operator ID: Wlf.L.(AM)

Quant Time: 981009 16:36 Injected at: 981009 15:57

#### QUANT REPORT

Quant Rev: 6 Quant Time: 981009 16:36 Operator ID: WILLIAM Output File: ^C0742::OT Data File: >C0742::Cl Injected at: 981009 15:57

Dilution Factor: 1.00000

Name: 9811260MSD 16-20MSD

Misc: 1933 10/09/98 10/01/98 5.0 1.0 M 5000 250

ID File: IDPS22::SC

Title: Accredited Labs VOA ID file - RTX 502.2 105m 0.53mm 3.0um

Last Calibration: 981009 09:40

|             | Compound               | R.T.  | Scan# | Area    | Conc   | Units | q   |
|-------------|------------------------|-------|-------|---------|--------|-------|-----|
| <b>-</b> 1) | *Bromochloromethane    | 15.81 | 248   | 76660M  | 50.00  | ug/l  |     |
| 6)          | Methylene Chloride     | 11.25 | 148   | 14622   | 6.06   | ug/l  | 89  |
| 7)          | Acetone                | 9.57  | 111   | 5873    | 18.14  | ug/l  | 99  |
| 9)          | l.l-Dichloroethene     | 9.66  | 113   | 101412  | 45.18  | ug/l  | 9.7 |
| 11)         | cis-1,2-Dichloroethene | 14.99 | 230   | 4350    | 1.60   | ug/l  | 98  |
| 14)         | 1,2-Dichloroethane-d4  | 17.18 | 278   | 99413   | 48.57  | ug/l  | 7.5 |
| 16)         | ±1,4-Difluorobenzene   | 18.14 | 299   | 429683  | 50.00  | ug/1  | 7 7 |
| 17)         | 2-Butanone             | 14.58 | 221   | 10017   | 15.11  | ug/l  | 99  |
| 23)         | Trichloroethene        | 18.92 | 316   | 561104M | 139.67 | ug/l  |     |
| 24)         | Benzene                | 17.46 | 284   | 381387  | 47.97  | ug/l  | 100 |
| 29)         | *Chlorobenzene-d5      | 25.39 | 458   | 345802  | 50.00  | ug/1  | 84  |
| 32)         | Tetrachloroethene      | 23.52 | 417   | 15193   | 4.17   | ug/l  | 9.2 |
| 34)         | Toluene-d8             | 21.79 | 379   | 417072  | 49.80  | ug/1  | 94  |
| <b>35</b> ) | Toluene                | 21.97 | 383   | 464504  | 49.56  | ug/1  | 98  |
| 36)         | Chlorobenzene          | 25.48 | 460   | 355954  | 49.22  | ug/l  | 94  |
| 37)         | Bromofluorobenzene     | 28.36 | 523   | 240599M | 49.41  | ug/l  |     |

^{*} Compound is ISTD

| DJECT WEDNESDAY, OCADBER 7th, 1998  BC  17002  BFB TWNE > C 069  ELLYC  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VSTDOED > C 070  VS | Continued From Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| ### PLANE > C 069  #### PLANE > C 069  #### PLANE > C 069  #### PLANE > C 069  #### PLANE > C 069  #### PLANE > C 069  #### PLANE > C 069  #### PLANE > C 069  #### PLANE > C 069  #### PLANE > C 070  #### PLANE > C 070  ##### PLANE > C 070  ##### PLANE > C 070  ##### PLANE > C 070  ##### PLANE > C 070  ##### PLANE > C 070  ##### PLANE > C 070  ##### PLANE > C 070  ###### PLANE > C 070  ##################################                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| VSTD 050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| VSTD 020 X 070  LPS22  VSTD 010 > C070  VSTD100 > C070  VSTD200 > C070  VBLKC79 > C070  HBLK > C070  9811327 0  11328 0  11329 10  Blankms 11  Blankms 11  9811239 ms 12  11239 ms 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SCAN 72 ENH-1:1, ES,63 S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| VSTD 010 > C070 VSTD 100 > C070 VSTD 200 > C070 VSTD 200 > C070 VBLKC 79 > C070  HBLK > C070  98/1327 0  1/328 0  1/329 0  Blankms (1) Blankms (1) 98/1/239 ms (2) 1/239 ms) 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| VSTD100 >C.070 VSTD200 >C.070 VBLKC79 > C.070  HBLK >C.070  98/1327 0  1/328 0  1/329 0  Blankms (1) Blankms (1) 98/1/239 ms (2) 1/239 ms (4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| VSTDZOO >COFO  VBLKC79 > COFO  HBLK > COFO  98/1327 0  1/328 0  1/329 0  Blankms (I)  Blankms (I)  98/1/239 ms (I)  1/239 ms (I)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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BFB TUNE > C 0732 SUAN 76 ENH T! I ES, GS,
VSTD050 > C 07.33
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Continued on Page

Read and Understood By

V-97

Att House

14/09/98

Signed

Date

#### PERCENT SOLIDS DETERMINATION

| ALI #   | SAMPLE<br>+ PAN<br>======               | PAN  | SAMPLE | DRY WGT<br>SAMPLE<br>+ PAN    | TIME<br>IN                              | TEMP                                   | DATE                                    | TIME<br>OUT                             |                                         | DATE                                    | % SOLID | INIT      |
|---------|-----------------------------------------|------|--------|-------------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------|-----------|
| 9811249 |                                         |      |        |                               | A                                       | ************************************** |                                         | esselden und Pillian                    |                                         | *************************************** |         |           |
| 9811250 |                                         |      |        |                               |                                         | ****                                   |                                         |                                         |                                         |                                         |         |           |
| 9811251 |                                         |      |        |                               |                                         |                                        | *************************************** | *************************************** | *************************************** |                                         |         |           |
| 9811252 |                                         |      |        | profite and the second second | *************************************** |                                        |                                         |                                         |                                         |                                         |         |           |
| 9811253 |                                         |      |        |                               |                                         |                                        |                                         |                                         |                                         | <del></del> ,                           |         |           |
| 9811254 | 17.83                                   | 1.01 | 1682   | 11.74                         | 17:00                                   | 105                                    | 10/1/21                                 | 9:30                                    | 100                                     | 10/1/11                                 | 63.8    | 12        |
| 9811255 |                                         |      | A      |                               |                                         |                                        | *************************************** |                                         |                                         |                                         | K       |           |
| 9811256 |                                         |      |        |                               |                                         |                                        |                                         |                                         |                                         |                                         |         |           |
| 9811257 |                                         |      |        |                               |                                         |                                        |                                         | ~~                                      |                                         | *************************************** |         |           |
| 9811258 | *************************************** |      |        |                               |                                         |                                        | *************************************** |                                         |                                         | *************************************** |         |           |
| 9811259 |                                         |      |        |                               |                                         |                                        |                                         |                                         |                                         | P                                       |         |           |
| 9811260 | 7,20                                    | 1-00 | 6.20   | 6.64                          |                                         |                                        |                                         |                                         |                                         | **************************************  | 91.0    | <u>RR</u> |
| 9811261 | 14.35                                   | 1.00 | 13.36  | 12.70                         |                                         |                                        |                                         |                                         |                                         |                                         | 87.6    |           |
| 9811262 | 9.60                                    | 1.00 | 8.60   | 8.86                          |                                         |                                        |                                         |                                         | <del></del>                             |                                         | 91.4    |           |
| 9811263 | 6.56                                    | 60.1 | 5.56   | 6.17                          |                                         |                                        | *************************************** |                                         |                                         |                                         | 93.0    |           |
|         |                                         |      |        |                               |                                         |                                        |                                         |                                         |                                         |                                         | _       |           |

Page: 3850

% SOLIDS = ((DRY WT SAMPLE + PAN) - PAN)  $\times$  100 / INITIAL WEIGHT NOTE: All weights are reported in grams.

V-98

REVIEWED BY



# ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

# Analytical Data Report

for

LMS One Blue Hill Plaza Pearl River, NY 10965

## Project: Former L A K A

Accredited Laboratories Case No.: 1696 Date Received: 09/14/98

| Field ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sample #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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LAWLER, MATUSKY & SKELLY ENGINEERS LLP

OCT 07 1998

For Hazardous Waste Section

Accredited Laboratories, Inc. New York Certification Number 11109. This data has been reviewed and accepted by:

Yon-shen Lee, Ph.D. Technical Director

(732) 541-2025

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#### SDG NARRATIVE

Accredited Labs received 1 soil sample (Project: Former Laka; ALI Case #1696) from LMS on 09/14/98 for the analyses of Volatile Organics.

All analyses were performed within the required holding time.

All soil analyses were reported on a dry weight basis.

The sample was delivered by Federal Express and ALI received the sample on 09/14/98. All ice in the cooler was melted upon receipt therefore, the temperature of blank was measured at 72°F.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Yun-shen Lee, Ph.D.

Technical Director

LATVLER, MATUSKY & SKELLY ENGINEERS LLP

OCT 07 1998

For Hazardous Waste Section

Date: 09/14/98

ACCREDITED LABORATORIES, INC.

Time: 15:24 🛥 1

## ORGANIC ANALYSIS LABORATORY CHRONICLE

| OTHER=NY-AS                                      | РВ                                                                 |           |        |         |          |      |     |      |              |     |      | -                   |
|--------------------------------------------------|--------------------------------------------------------------------|-----------|--------|---------|----------|------|-----|------|--------------|-----|------|---------------------|
| Client: L                                        | M S                                                                | For       | - D-   | to Duce |          |      |     |      | Due:         |     |      |                     |
| Client Pro                                       | Fax Data Due: Hard Project Name: Former L A K A                    |           |        |         |          |      |     |      |              | 09/ | 24/9 | 8 🛥                 |
| Date Sample                                      | Date Sampled:09/11/98 Date Received:09/14/98 Report Package: Other |           |        |         |          |      |     |      |              |     |      |                     |
| Test: VO Test Description:Volatile Organics (VO) |                                                                    |           |        |         |          |      |     |      |              |     |      |                     |
|                                                  | В                                                                  | y Method: |        |         |          |      |     |      |              |     |      |                     |
| SAMPLE                                           | IDENTI                                                             | FICATION  | M      | EX      | TRACTION |      |     | AN   | NALYSI       | S   |      | TIC<br>LA           |
| Field#                                           | Case#                                                              | Sample#   | X      | Date    | Time     | Init |     | ate  | -====<br>T i | .me | Ini  | t 🕶                 |
| B(16-20)                                         | 1696                                                               | 9810381   | =<br>S |         |          |      | 9-2 | 2-98 |              |     | 41.6 | = =<br><del>-</del> |

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge
RPT:Report 1

ate: 09/14/98

Accredited Laboratories, Inc. General Chemistry Laboratory Chronicle

Time: 15:24:01

Page:

OTHER=NY-ASP B

lient Name: L M S

lient Field Number: B(16-20)

lient Sample Description:

ate Sampled: 09/11/98

lient Project Name: Former L A K A

hases:

Case#: 1696

Date Received: 09/14/98

Sample#: 9810381

Fax Data Due:

Hard Copy Due: 09/24/98

Report Package: Other

|   |          | M = = t          | ANALYTICAL DATA |      |       | SAMPLE PREP |       | SAMPLE ANA | SAMPLE ANALYSIS |       |
|---|----------|------------------|-----------------|------|-------|-------------|-------|------------|-----------------|-------|
| x | Analytes | Test<br>Due Date | RESULTS         | MDL  | UNITS | DATE        | INIT  | DATE       | INIT            | REF   |
|   | % SOLIDS | 09/25/98         | 83.7            | 0.10 | %     | 9-15-98     | Austr | 9-16-98    | Aut of          | 379.7 |

eviewed By:

Date:

atrix: A=Aqueous: S=Soil: O=Oil: K=Solid: F=Filters: P=Potable Water: G=Sludge: X=Other:

RPT:Report06

W

# Λ

COMMENTS

# ACCREDITED LABORATORIES, INC.

CHAIN OF CUSTODY FORM_

ALI QUOTE#

ALI CASE#

P.O.#

01698

20 PERSHING AVENUE CARTERET NEW JERSEY 07008 PHCNE 132: 541-2025 (800) ALI-LABS

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# Accredited Laboratories, Inc. INTERNAL CHAIN OF CUSTODY

| Seal on | Sample      | son Breaking<br>Shuttle & Ac<br>for Sample | cepting      | ory: Accredited Laborator |               |       | _                        |  |  |
|---------|-------------|--------------------------------------------|--------------|---------------------------|---------------|-------|--------------------------|--|--|
| Field S | ample S     | eal No.                                    | sure         | Date Broken://            |               |       |                          |  |  |
| Case No | -           | 1696                                       |              | Check if No Seal on Sa    | ample Shuttle |       |                          |  |  |
|         | Field       | i #                                        | Laboratory # | Test Name                 | Date Sa       | mpled | Date Received            |  |  |
| В(      | 16-20       | )) [                                       | 9810381      | Vo                        | 09/11         | /98   | 09/14/98                 |  |  |
| DATE    | TIME        | RELINQUISHE                                | D BY         | RECEIVED BY               |               | PUR   | POSE OF CHANGE OF CUSTOD |  |  |
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|         |             | Signature                                  |              | Signature                 |               |       |                          |  |  |
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|         |             | Signature                                  |              | Signature                 |               |       |                          |  |  |

# Accredited Laboratories, Inc. INTERNAL CHAIN OF CUSTODY

| Laboratory Pers<br>Seal on Sample<br>Responsibility | Shuttle & A |                   | N. ANTONELL            |               | ocation: C | . •                       |
|-----------------------------------------------------|-------------|-------------------|------------------------|---------------|------------|---------------------------|
| Field Sample Se                                     | eal No      | some o            | Date Broken://         | Military      | Time Seal  | Broken                    |
| Case No.                                            | 1696        |                   | Check if No Seal on Sa | ample Shuttle | •          |                           |
| Field                                               | 1 #         | Laboratory #      | Test Name              | Date Sa       | mpled      | Date Received             |
| B(16-20                                             | ))          | 9810381           | % SOLIDS               | 09/11         | /98        | 09/14/98                  |
| DATE TIME                                           | RELINOUISH  | ED BY             | RECEIVED BY            |               | PUR        | POSE OF CHANGE OF CUSTODY |
| ,48                                                 | Printed Na  | "ANTONIELLI       | Printed Name M. GAM    | BARDELLA      | - ,        | 1 12                      |
| 1 4 8 i                                             | Signature   | Murtinel          | Signature A.           | ballel        | la la      | uckepes .                 |
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FORM: 291COC

6

### BARBARA A. DEBUONO, M.D., M.P.H. Commissioner



Expires 12:01 AM April : 1, 1999 ISSUED April 1, 1998 REVISED July 28, 1998

# CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

Lab ID No.: 11109

Director: DR. YUN-SHEN LEE

Lab Name: ACCREDITED LABORATORIES INC

Address: 20 PERSHING AVENUE CARTERET NJ 07008

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/SOLID AND HAZARDOUS WASTE

All approved subcategories and/or analytes are listed below:

haracteristic Testing :
Corrosivity
gnitability
eactivity
TCLP
E.P. Toxicity

Miscellaneous :
 Cyanide, Total
 Lead in Paint
 Hydrogen Ion (pE)
 Sulfide (as S)
Priority Polintant Phenois (ALL)

Acrolein and Acrylonitrile (ALL) Chlorinated Eydrocartons (ALL) Metals I (ALL) Kitroaromatics Isophorone (ALL) Polychlorinated Siphenyls (ALL) Purgeable Aromatics (ALL) Chlor. Eydrocarbon Pesticides (ALL)
Ealoethers (ALL)
Hetals II (ALL)
Polynuclear Arom. Hydrocarbon (ALL)
Fathalate Esters (ALL)
Furgeable Halocarbons (ALL)

Serial No.: 103528

Wadsworth Center

Property of the New York State Department of Health. Valid only at the address shown.

Must be conspicuously posted. Valid certificate has a red serial number.

DOH-3317 (3/97)

# ACCREDITED LABORATORIES, INC. WATER/SOIL VOLATILE SURROGATE RECOVERY

|   | ALI                 |     | Sl       | S 2      | S 3     | TOTAL |
|---|---------------------|-----|----------|----------|---------|-------|
|   | Sample No.          | Mtx | (DCE-d4) | (TOL-d8) | ( BFB ) | OUT   |
|   | =========           | === | =======  | =======  | ======= | ===   |
| l | VBLKC66             | S   | 8 7      | 104      | 93      | 0     |
| 2 | VBLKC67             | S   | 88       | 102      | 93      | 0     |
| 3 | 9810381             | S   | 93       | 112      | 91      | 0     |
| 4 | 9810281DL           | S   | 89       | 107      | 93      | 0     |
| 5 | 9810360 <b>M</b> S  | S   | 91       | 110      | 9 2     | 0     |
| 6 | 9810360 <b>M</b> SD | S   | 91       | 109      | 91      | 0     |
| 7 | BLANKMS             | S   | 89       | 107      | 94      | 0     |
| 8 | BLANKMSD            | S   | 92       | 107      | 95      | 0     |

| EPA CLP QC Limits for:              | WATER    | SOIL       |
|-------------------------------------|----------|------------|
| S1 (DCE-d4) = 1,2-Dichloroethane-d4 | (76-114) | (70-121)   |
| S2 (TOL-d8) = Toluene-d8            | (88-110) | (81-117)   |
| S3 ( BFB ) = Bromofluorobenzene     | (86-115) | (74 - 121) |

^{*} Values outside of EPA contract laboratory QC limits

## 3 B SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

| , ē ` | Name: | Accredited | d Labs, | Inc. | Contract: | and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th |     |      |  |
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| æ | rix | Spike | - | ALI | Sample | No.: | 9810360 |
|---|-----|-------|---|-----|--------|------|---------|
|   |     |       |   |     |        |      |         |

|                                       | 1     | SPIKE   | İ     | SAMPLE       | 1  | MS            | 1 | MS    | l QC    |
|---------------------------------------|-------|---------|-------|--------------|----|---------------|---|-------|---------|
|                                       | i     | ADDED   | 1 C   | ONCENTRATION | 10 | CONCENTRATION | I | %     | LIMITS  |
| C MPOUND                              |       | (UG/KG) | ,     | (UG/KG)      | 1  | (UG/KG)       |   | REC   | #1 REC. |
| ===================================== | =   = | ======= | =   = |              | =  |               | : | ===== | ======= |
| l, l-Dichloroethene                   | _     | 50      |       | 0            | 1  | 5 2           | - | 103   | 159-172 |
| Trichloroethene                       | _     | 50      | İ     | 0            | ĺ  | 45            | 1 | 91    | 162-137 |
| P nzene                               | _     | 50      | i     | 0            |    | 5 1           |   | 102   | 166-142 |
| T#luene                               | _     | 50      |       | 0            | 1  | 5 3           | 1 | 106   | 159-139 |
| Chlorobenzene                         | _     | 5 0     | 1     | 0            | 1  | 5 0           | 1 | 100   | 160-133 |
|                                       | _   _ |         | .     |              | ۱  |               | 1 |       |         |

| 30.04 | *  |
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| М,    | i  |
|       |    |
|       | A, |

| COMPOUND               |   |            | ì | MSD<br>CONCENTRAT<br>(UG/KG) | I    |   | REC        | #! | RPD    | # | RPI        | •                        |
|------------------------|---|------------|---|------------------------------|------|---|------------|----|--------|---|------------|--------------------------|
| l#1-Dichloroethene     |   | 50         | - | 5 1                          |      |   | 103        | İ  | 0      | ! | 22         | 159-1721                 |
| TrichloroetheneB nzene | ! | 50         | 1 | 4 7<br>5 1                   | <br> | l | 102        |    | 0      |   |            | 62 - 137  <br>  66 - 142 |
| TmlueneChlorobenzene   |   | 5 0<br>5 0 | 1 | 5 3<br>5 0                   | 1    |   | 106<br>101 |    | 0<br>1 | 1 | 2 I<br>2 I | 59-139 <br> 60-133       |
|                        |   |            | _ |                              |      | _ |            |    |        | 1 |            |                          |

| Column | to be | used  | to  | flag | recovery | and | RPD | values | with | an | asterisk |
|--------|-------|-------|-----|------|----------|-----|-----|--------|------|----|----------|
| alues  | outsi | de of | q c | limi | ts       |     |     |        |      |    |          |

PD: 0 out of 5 outside limits

p ke Recovery: 0 out of 10 outside limits

| OMMENTS: |  |
|----------|--|
| •        |  |

# 3B SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: Accredited Labs, Inc. Contract:

atrix Spike - ALI Sample No.: VBLKC66

|                    | 1       | SPIKE   |       | SAMPLE      |       | MS           | 1 | MS   | l QC I   |
|--------------------|---------|---------|-------|-------------|-------|--------------|---|------|----------|
|                    | 1       | ADDED   | 1 C   | ONCENTRATIO | NIC   | ONCENTRATION |   | %    | LIMITS   |
| COMPOUND           | 1       | (UG/KG) |       | (UG/KG)     | 1     | (UG/KG)      | 1 | REC  | #   REC. |
|                    | ===   : |         | = 1 = |             | =   = |              | = | ==== | =======  |
| l,l-Dichloroethene |         | 5 0     | 1     | 0           | 1     | 60           |   | 120  | 159-1721 |
| Trichloroethene    | 1       | 5 0     | 1     | 0           | i     | 48           | 1 | 96   | 162-1371 |
| Benzene            |         | 50      | 1     | 0           | 1     | 51           | 1 | 102  | 166-1421 |
| Toluene            | 1       | 5 0     | 1     | 0           | 1     | 5 2          | l | 105  | 159-1391 |
| Chlorobenzene      |         | 5 0     | 1     | 0           | - 1   | 5 1          |   | 102  | 160-1331 |
|                    | 1       |         | 1     |             | 1.    |              |   |      |          |

|                    | 1     | SPIKE   | - | MSD                                     | 1 | MSD   | 1   |       |     | l   |      | 1        |
|--------------------|-------|---------|---|-----------------------------------------|---|-------|-----|-------|-----|-----|------|----------|
|                    | 1     | ADDED   | 1 | CONCENTRATION                           | H | %     |     | %     |     | (   | QC L | IMITS    |
| COMPOUND           | 1     | (UG/KG) | 1 | (UG/KG)                                 | 1 | REC   | #   | RPD   | #   | 1 1 | RPD  | I REC. I |
|                    | :   : |         | = | ======================================= | : | ===== | =   | ===== | = = | === | ==== | =====    |
| l,l-Dichloroethene | -     | 5 0     | 1 | 5 7                                     | 1 | 114   | İ   | 5     |     |     | 2 2  | 159-1721 |
| Trichloroethene    | -     | 50      | İ | 47                                      | 1 | 94    | -   | 2     |     | 1 : | 2 4  | 162-1371 |
| Benzene            | 1     | 50      | 1 | 50                                      |   | 101   | ŀ   | 1     | ł   | 1 : | 2 1  | 166-1421 |
| Toluene            | . 1   | 50      | 1 | 51                                      | 1 | 102   | - 1 | 2     |     |     | 2.1  | 159-1391 |
| Chlorobenzene      | . 1   | 50      | - | 5 0                                     | ł | 100   | 1   | 2     | -   |     | 2.1  | 160-1331 |
|                    | 1     |         | 1 |                                         | 1 |       |     |       |     |     |      |          |

Column to be used to flag recovery and RPD values with an asterisk Values outside of qc limits

PD: 0 out of 5 outside limits

pike Recovery: 0 out of 10 outside limits

| OMMENTS: | : |
|----------|---|
|          |   |

| T.E. | METHOD | RIANK | SHMMARY |
|------|--------|-------|---------|

|   |       |            |       |      |           | 1 |
|---|-------|------------|-------|------|-----------|---|
| - |       |            |       |      |           | 1 |
| b | Name: | ACCREDITED | LABS, | INC. | Contract: |   |

a Code: 11109 Case No.: SAS No.: SDG No.:

a' File ID: >C0359 Lab Sample ID: VBLKC65

ate Analyzed: 09/21/98 Time Analyzed: 10:37

C Column: RTX-502 ID: 0.53(mm) Heated Purge: (Y/N) Y

nstrument ID: HP5970C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| ***          | EPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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EPA SAMPLE NO.

# VOLATILE METHOD BLANK SUMMARY

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EPA SAMPLE NO.

| a h | Mame: | ACCREDITED | TARS  | INC. | Contract: | Ì | i |
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ab File ID: >C0378 Lab Sample ID: VBLKC66

ate Analyzed: 09/22/98 Time Analyzed: 09:50

C Column: RTX-502 ID: 0.53(mm) Heated Purge: (Y/N) Y

nstrument ID: HP5970C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| I   | EPA           | I LAB          | LAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TIME       |
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|     | SAMPLE NO     | O.   SAMPLE ID | FILE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ANALYZED I |
| 011 |               | 9810381        | >C0384                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 14:34      |
| 021 |               | BLANKMS        | ) C0382                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13:20      |
| 031 |               | BLANKMSD       | C0382                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 13:57      |
| 041 |               |                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13.37      |
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| 061 |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 071 |               | 1              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 081 |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 091 |               | ,              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 101 |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 11  |               | Ī              | ł                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |
| 121 |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 13  |               | I              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 14  |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 151 |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 161 |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
| 171 |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
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| 221 |               |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |
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|                            |                | VOLATILE ME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | THOD BLANK SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                |
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| Name: A                    | CCREDITED LAB: | S, INC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Contract:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                |
| Code: 1                    | 1109 Case      | No.: 1696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SAS No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SDG No.:                                                                                                       |
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| Analyz                     | ed: 09/        | /23/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Time Ana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | lyzed: 08:55                                                                                                   |
| olumn: H                   | RTX-502 ID:    | 0.53(mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Heated P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | urge: (Y/N) Y                                                                                                  |
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# VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION BROMOFLUOROBENZENE (BFB)

.ab Name: ACCREDITED LABORATORIES, INC. Contract:

.ab File ID: >C9595 BFB Injection Date: 08/06/98

nstrument ID: HP5970BC BFB Injection Time: 09:47

| m/e   ION ABUNDANCE CRITERIA            | % RELATIVE  <br>  ABUNDANCE |
|-----------------------------------------|-----------------------------|
|                                         |                             |
| 50   15.0 - 40.0% of mass 95            | 15.0                        |
| 75   30.0 - 60.0% of mass 95            | 44.6                        |
| 95   Base peak, 100% relative abundance | 100.                        |
| 96   5.0 - 9.0% of mass 95              | 1 6.2                       |
| 173   Less than 2.0% of mass 174        |                             |
| 174   Greater than 50.0% of mass 95     |                             |
| 175   5.0 - 9.0% of mass 174            | 5.7(7.1)11                  |
| 176   95.0 - 101.0% of mass 174         |                             |
| 177   5.0 - 9.0% of mass 176            | 5.7( 7.3 )2                 |
|                                         | 1                           |
| l-Value is % mass 174 2-Value is % ma   | ass 176                     |

HIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| EPA                                                                                                             | LAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | I            | LAB                                                                           | DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TIME     |
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| SAMPLE NO.                                                                                                      | SAMPLE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -            | FILE ID                                                                       | ANALYZED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ANALYZED |
|                                                                                                                 | VSTD050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | == ==        | >C9596                                                                        | 1 08/06/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 10:17  |
| <u> </u>                                                                                                        | VSTD030<br>VSTD020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1            | >C9597                                                                        | 1 08/06/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 11:04  |
| 1                                                                                                               | VSTD020<br>VSTD010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1            |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
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|                                                                                                                 | VSTD100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1            | >09599                                                                        | 08/06/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12:37    |
|                                                                                                                 | VSTD200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | >09600                                                                        | 1 08/06/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13:24    |
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#### 5 A

# VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION BROMOFLUOROBENZENE (BFB)

| € Name: ACCREDIT | ED LABORATORIES | , INC. | Contract: | ***** |
|------------------|-----------------|--------|-----------|-------|
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 $\varepsilon$ ' File ID: >C0356 BFB Injection Date: 09/21/98

nstrument ID: HP5970BC BFB Injection Time: 08:35

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l-Value is % mass 174 2-Value is % mass 176

HTS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

|      | EPA                                     | LAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | LAB         | 1   | DATE     | TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| 1    | SAMPLE NO.                              | SAMPLE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | FILE ID     | - 1 | ANALYZED | ANALYZED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ı    | ======================================= |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | == == | =========   | = = |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Η.   |                                         | VSTD050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0357      |     | 09/21/98 | 08:55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 21,  |                                         | VBLKC65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | >C0359      | 1   | 09/21/98 | 10:37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3    |                                         | 9810358                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0360      | -   | 09/21/98 | 11:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ¥ 1, |                                         | 9810359                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0361      | 1   | 09/21/98 | 12:06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 51   |                                         | 9810354                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0362      | i   | 09/21/98 | 12:43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 51   |                                         | 9810356                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | >C0363      |     | 09/21/98 | 13:26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1.   |                                         | 9810357                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0364      | 1   | 09/21/98 | 14:09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 31   | 1                                       | 9810360                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0365      | 1   | 09/21/98 | 14:53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1    |                                         | 9810361                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0366      | 1   | 09/21/98 | 15:36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|      |                                         | 9810362                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0367      | 1   | 09/21/98 | 16:19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| . 1  |                                         | 9810363                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I     | >00368      | ļ   | 09/21/98 | 17:01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2    |                                         | 9810364                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0369      | -   | 09/21/98 | 17:44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 31   |                                         | 9810365                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1     | >C0370      | 1   | 09/21/98 | 18:27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1    |                                         | 9810352DL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1     | > C O 3 7 1 | 1   | 09/21/98 | 19:10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 51.  |                                         | 9810360 <b>M</b> S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | į     | >C0372      | ł   | 09/21/98 | 19:53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1    | 1                                       | 9810360MSD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1     | >C0373      | 1   | 09/21/98 | 20:35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1    | 1                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | !     |             |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 31   |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | !     |             | 1   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ) [  | 1                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ) [  |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             |     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|      |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |             | -   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2    |                                         | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s |       |             |     |          | ARTHUR STATE AND AND ARTHUR ARTHUR AND AND ARTHUR ARTHUR AND ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTHUR ARTH |

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#### 5 A VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION BROMOFLUOROBENZENE (BFB)

.ab Name: ACCREDITED LABORATORIES, INC. Contract: _____

.ab File ID: >C0376

BFB Injection Date: 09/22/98

nstrument ID: HP5970BC

BFB Injection Time: 08:43

| 50   15.0 - 40.0% of mass 95                                                                          | % RELATIVE<br>ABUNDANCE                 |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 75   30.0 - 60.0% of mass 95<br>95   Base peak, 100% relative abundance<br>96   5.0 - 9.0% of mass 95 | == ==================================== |
| 95   Base peak, 100% relative abundance<br>96   5.0 - 9.0% of mass 95                                 | 15.0                                    |
| 96   5.0 - 9.0% of mass 95                                                                            | 1 42.7                                  |
|                                                                                                       | 100.                                    |
|                                                                                                       | 1 8.4                                   |
| 173   Less than 2.0% of mass 174                                                                      |                                         |
| 174   Greater than 50.0% of mass 95                                                                   |                                         |
| 175   5.0 - 9.0% of mass 174                                                                          | 5.4(6.4)1                               |
| 176   95.0 - 101.0% of mass 174                                                                       |                                         |
| 177   5.0 - 9.0% of mass 176                                                                          |                                         |
|                                                                                                       |                                         |

l-Value is % mass 174

2-Value is % mass 176

HIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| l EPA                                                                                                 | I LAB      | 1  | LAB         |    | DATE                                                                             | TIME       |
|-------------------------------------------------------------------------------------------------------|------------|----|-------------|----|----------------------------------------------------------------------------------|------------|
| SAMPLE NO.                                                                                            | SAMPLE ID  | 1  | FILE ID     | 1  | ANALYZED                                                                         | I ANALYZED |
|                                                                                                       |            | == |             | == |                                                                                  |            |
|                                                                                                       | VSTD050    | 1  | >C0377      | 1  | 09/22/98                                                                         | 09:03      |
|                                                                                                       | VBLKC66    |    | >C0378      | 1  | 09/22/98                                                                         | 1 09:50    |
|                                                                                                       | 9810390    | 1  | >00379      | 1  | 09/22/98                                                                         | 11:30      |
|                                                                                                       | 9810359    |    | >C0380      | 1  | 09/22/98                                                                         | 12:07      |
|                                                                                                       | 9810266    | 1  | >C0381      | 1  | 09/22/98                                                                         | 12:43      |
|                                                                                                       | I BLANKMS  |    | >C0382      | 1  | 09/22/98                                                                         | 13:20      |
|                                                                                                       | I BLANKMSD |    | >C0383      | 1  | 09/22/98                                                                         | 13:57      |
|                                                                                                       | 9810381    | 1  | >C0384      | 1  | 09/22/98                                                                         | 14:34      |
| Managar Zalandari Annagar Jahardar Jahardar Annagar Annagar (Managar Zalandar Malanda Jahabba nabubun | 98:0361    | 1  | >C0385      | 1  | 09/22/98                                                                         | 15:12      |
|                                                                                                       | 9810362    | 1  | >C0386      | -  | 09/22/98                                                                         | 15:55      |
|                                                                                                       | 9810363    |    | >C0387      | 1  | 09/22/98                                                                         | 16:40      |
| maken menta menur mpaga atean sajaga dang bagapa dang bagapa dang bagapa dang bagapa sasaga sasaga    | 9810364    |    | >C0388      | 1  | 09/22/98                                                                         | 17:23      |
|                                                                                                       | 9810386    | 1  | >C0389      | 1  | 09/22/98                                                                         | 18:06      |
| AND AND AND AND AND AND AND AND AND AND                                                               | 9810387    | ļ  | >C0390      | 1  | 09/22/98                                                                         | 18:50      |
|                                                                                                       | 9810388    | 1  | >C0391      | 1  | 09/22/98                                                                         | 19:33      |
|                                                                                                       | 9810389    |    | > C 0 3 9 2 | -  | 09/22/98                                                                         | 20:16      |
|                                                                                                       |            | _  |             |    |                                                                                  |            |
|                                                                                                       |            | _  |             |    | manne maner enser großes sindern medice laber medice medice selected             |            |
|                                                                                                       | 1          | .  |             |    | MINISTER & MANUAL SANDARE SEASONE WARRING PROPERTY SEASONE SEASONE MANUAL ARMSON |            |
| <u></u>                                                                                               | l          | _  |             | 1  |                                                                                  | l          |
|                                                                                                       | 1          | _  |             |    |                                                                                  | l          |
|                                                                                                       |            | _  |             | 1  |                                                                                  | 1          |

age 1 of 1

# 5 A VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION

BROMOFLUOROBENZENE (BFB)

ab Name: ACCREDITED LABORATORIES, INC. Contract:

it_File ID: >C0394 BFB Injection Date: 09/23/98

is rument ID: HP5970BC BFB Injection Time: 07:49

| 50   15.0 - 40.0% of mass 95   15.1   5   30.0 - 60.0% of mass 95   44.0   100.   5   Base peak. 100% relative abundance   100.   7.1   1   3   Less than 2.0% of mass 174   10.0(0.0) 1   4   Greater than 50.0% of mass 95   93.8   175   5.0 - 9.0% of mass 174   6.9(7.3) 1   1/6   95.0 - 101.0% of mass 174   90.3(96.3) 1                                                          |                   | ION ABUNDANCE CRITERIA        | % RELATIVE<br>  ABUNDANCE |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|---------------------------|
| 5   30.0 - 60.0% of mass 95         44.0         5   Base peak, 100% relative abundance         100.         - 96   5.0 - 9.0% of mass 95         7.1         ! 3   Less than 2.0% of mass 174         0.0(0.0)         ! 4   Greater than 50.0% of mass 95         93.8         175   5.0 - 9.0% of mass 174         6.9(7.3)         176   95.0 - 101.0% of mass 174         90.3(96.3) |                   |                               | •                         |
| 5   Base peak. 100% relative abundance   100 '96   5.0 - 9.0% of mass 95   7.1  ! 3   Less than 2.0% of mass 174   i 0.0(0.0)!  1 4   Greater than 50.0% of mass 95   93.8  ! 75   5.0 - 9.0% of mass 174   i 6.9(7.3)!  176   95.0 - 101.0% of mass 174   90.3(96.3)!                                                                                                                    |                   |                               |                           |
| 3   Less than 2.0% of mass 174                                                                                                                                                                                                                                                                                                                                                            |                   |                               |                           |
| 4   Greater than 50.0% of mass 95                                                                                                                                                                                                                                                                                                                                                         | - <del>1</del> 96 | 5.0 - 9.0% of mass 95         | 7.1                       |
| 175   5.0 - 9.0% of mass 174   6.9(7.3)  176   95.0 - 101.0% of mass 174   90.3(96.3)                                                                                                                                                                                                                                                                                                     | 1 3 1             | Less than 2.0% of mass 174    | i 0.0(0.0)1               |
| 1/6   95.0 - 101.0% of mass 174   90.3( 96.3)1                                                                                                                                                                                                                                                                                                                                            | 4                 | Greater than 50.0% of mass 95 | 93.8                      |
| 176   95.0 - 101.0% of mass 174   90.3( 96.3)1                                                                                                                                                                                                                                                                                                                                            | 1 <b>7</b> 5 1    | 5.0 - 9.0% of mass 174        | 6.9(7.3)1                 |
| 1 7   5.0 - 9.0% of mass 176   5.8( 6.4 )2                                                                                                                                                                                                                                                                                                                                                |                   |                               |                           |
|                                                                                                                                                                                                                                                                                                                                                                                           | 1 7               | 5.0 - 9.0% of mass 176        | 1 5.8(6.4)2               |

TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| 1            | EPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LAB                                                                                               | ŧ        | LAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1     | DATE                                                                    | TIME            |     |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------|-----------------|-----|
| _            | SAMPLE NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SAMPLE ID                                                                                         |          | FILE ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | ANALYZED                                                                | ANALYZED        | )   |
| =            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   | ==   = : |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | :   : |                                                                         | = = = = = = = = | = = |
| ٠ ا _        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VSTD050                                                                                           | 1        | >C0395                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | 09/23/98                                                                | 08:08           |     |
| 1_           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VBLKC67                                                                                           | -        | >00396                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     | 09/23/98                                                                | 1 08:55         |     |
| •   _        | The second deligner radius, which were subject to the state of these to the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9810266                                                                                           | 1        | >C0397                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     | 09/23/98                                                                | 09:53           |     |
| 41_          | a manage addition manufa. Manage shimmar manage relation relation property statement about                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 9810256                                                                                           | į        | >C0398                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     | 09/23/98                                                                | 10:28           |     |
| -  _         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810281DL                                                                                         |          | >C0399                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     | 09/23/98                                                                | 11:10           |     |
| -            | -4-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9810395                                                                                           | ł        | > C 0 4 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1     | 09/23/98                                                                | 11:52           |     |
| 71_          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810504                                                                                           | 1        | > C 0 4 0 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1     | 09/23/98                                                                | 1 12:35         |     |
| 31_          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810505                                                                                           | 1        | > C 0 4 0 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1     | 09/23/98                                                                | 13:18           |     |
| 1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810506                                                                                           | 1        | >C0403                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ì     | 09/23/98                                                                | 14:01           |     |
| 81_          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810507                                                                                           | 1        | > C 0 4 0 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1     | 09/23/98                                                                | 14:44           |     |
| 11_          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810508                                                                                           | 1        | >00405                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     | 09/23/98                                                                | 1 15:28         |     |
| 2            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810509                                                                                           | -        | > C 0 4 0 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | 09/23/98                                                                | 16:11           |     |
| <b>в</b> I _ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810516                                                                                           |          | >C0407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | i     | 09/23/98                                                                | 16:54           |     |
| 4   _        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810519                                                                                           | ĺ        | >C0408                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | 09/23/98                                                                | 17:37           |     |
| 51_          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9810481                                                                                           | 1        | >C0409                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     | 09/23/98                                                                | 18:20           |     |
| ۱_           | a general supply proper data by specime supply because south beauty and a second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9810482                                                                                           | 1        | >C0410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     | 09/23/98                                                                | 19:03           |     |
| 7 I _        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9810483                                                                                           | ĺ        | >C0411                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1     | 09/23/98                                                                | 19:46           |     |
| 91_          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   | !        | alaten kannan salahan seriagan semanti bantan disebah disebah kanda, disebah disebah disebah disebah disebah d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | .1.   |                                                                         | 1               |     |
| 11_          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and copies, makes, copies, separati commercialistics, spring papada, copies copied citizen copies |          | anne depen anne desen desen de anne a como como como de ante antes anne anne anne anne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | . 1   | rikan silabar 16 maga malama amban 1 apaga malama kapana alaman perinan |                 |     |
| b 1_         | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s |                                                                                                   |          | and there were their their war the half the last that the party is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1     |                                                                         |                 |     |
| 1   _        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   |          | Made SCACO (Aprile all Schools and Schools and Aprile and Aprile and Aprile and Aprile and Aprile and Aprile and Aprile and Aprile and Aprile and Aprile and Aprile and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April and April an | 1     |                                                                         |                 |     |
| 2 [          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   |          | new acres, makes their words being many chief there may said a an area. Law                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.    |                                                                         |                 |     |
| 1            | The same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the s |                                                                                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     |                                                                         |                 |     |

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

ab Name: ACCREDITED LABORATORIES, Contract: ab Code: _____ Case No.: SAS No.: ____ SDG No.: ab File ID (Standard): >C0357 Date Analyzed: 09/21/98 nstrument ID: HP5970BC Time Analyzed: 08:55 C Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) Y | AREA #| RT #| AREA #| RT #| AREA #| RT #| I LAB SAMPLE ! ļ 01| VBLKC65 | 134830 | 15.77 | 599799 | 18.14 | 464869 | 25.40 | 90715 | 15.83 | 367445 | 18.16 | 261948 | 25.41 | 02| 9810360MS | 031 9810360MSD 1 99622 | 15.81 | 406996 | 18.14 | 295312 | 25.39 | 041______ 071_____ 08|_____| 14|____ 151_____ 19|_____| ISI (BCM) = BrcmochloromethaneIS2 (DFB) = 1,4-DifluorobenzeneIS3 (CBZ) = Chlorobenzene-d5 AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk. * Values outside of QC limits.

V-11

# 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

.ab Name: ACCREDITED LABORATORIES, Contract: _____

.a Code: ____ Case No.: ___ SDG No.: ____

.ab File ID (Standard): >C0377 Date Analyzed: 09/22/98

r■trument ID: HP5970BC Time Analyzed: 09:03

-C Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) Y

|                           | IS1(BCM)                                |                                                                                                                                                                                                                                                                                               | I IS2(DFB)                              |                    | IS3(CBZ)                                |                    |
|---------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|-----------------------------------------|--------------------|
|                           | AREA #                                  |                                                                                                                                                                                                                                                                                               |                                         | RT #               |                                         |                    |
| 1 12 HOUR STDI            | 111400                                  | 15.81                                                                                                                                                                                                                                                                                         | 474684                                  | ======             | 380806                                  | ====== <br>  25.40 |
| UPPER LIMIT               | 222800  <br>55700                       | 16.31<br>15.31                                                                                                                                                                                                                                                                                | 949368<br>237342                        | 18.64  <br>  17.64 | 761612<br>190403                        | 25.90  <br>24.90   |
| ======== <br>  LAB SAMPLE | ======================================= |                                                                                                                                                                                                                                                                                               | ======================================= | =====              | ======================================= | ======             |
| NO.                       |                                         | =======================================                                                                                                                                                                                                                                                       | <br> =========                          | <br> ======        | ======================================= | =======            |
| 01' VBLKC66   0 1 9810381 | 130484  <br>91520                       | 15.81  <br>15.83                                                                                                                                                                                                                                                                              | 551285<br>386722                        | 18.14  <br>  18.16 | 435850  <br>277528                      | 25.40  <br>25.40   |
| 051 BLANKMS 1             | 119206  <br>109827                      | 15.82  <br>15.82                                                                                                                                                                                                                                                                              | 554850<br>502532                        | 18.15  <br>  18.15 | 428194  <br>392290                      | 25.40  <br>25.41   |
| 0                         |                                         |                                                                                                                                                                                                                                                                                               |                                         |                    |                                         |                    |
| 0 7    <br>0    <br>0     |                                         | Salance Manage Common Affilia Announce Control of Salance Announce Control of Salance Announce Control of Salance Announce Control of Salance Announce Control of Salance Announce Control of Salance Announce Control of Salance Announce Control of Salance Announce Control of Salance Con |                                         | <br>               |                                         |                    |
| 101                       |                                         |                                                                                                                                                                                                                                                                                               |                                         |                    |                                         |                    |
|                           |                                         |                                                                                                                                                                                                                                                                                               |                                         |                    |                                         |                    |
| 14                        |                                         |                                                                                                                                                                                                                                                                                               |                                         |                    |                                         |                    |
| 1.14<br>171               |                                         |                                                                                                                                                                                                                                                                                               |                                         |                    |                                         |                    |
|                           |                                         |                                                                                                                                                                                                                                                                                               |                                         |                    |                                         |                    |
| 20      2                 |                                         |                                                                                                                                                                                                                                                                                               |                                         |                    |                                         |                    |

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

🗯 # Column used to flag values outside QC limits with an asterisk.

^{*} Values outside of QC limits.

# 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

ab Name: ACCREDITED LABORATORIES, Contract: ______

ab Code: ____ Case No.: 1696 SAS No.: ___ SDG No.: ____

ab File ID (Standard): >C0395 Date Analyzed: 09/23/98

nstrument ID: HP5970BC Time Analyzed: 08:08

 $\mathbb{C}$  Column: RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) Y

|            |                                         | IS1(BCM)                                | l       | IS2(DFB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ı       | IS3(CBZ)  |         |
|------------|-----------------------------------------|-----------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|---------|
|            |                                         | AREA #                                  | RT#     | AREA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RT#     | AREA #1   | RT #1   |
|            | ==========                              | ========                                | ======  | =========                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ======= | ========= | ======  |
|            | 12 HOUR STDI                            | 109960                                  | 15.77   | 488044                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18.09   | 380714    | 25.35   |
|            | UPPER LIMIT                             | 219920                                  | 16.27   | 976088                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18.59   | 761428    | 25.85   |
|            | LOWER LIMIT                             | 54980                                   | 15.27   | 244022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 17.59   | 190357    | 24.85   |
|            |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ======  |           | ======  |
|            | LAB SAMPLE                              | 1                                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | !         | 1       |
|            | NO.                                     |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | !       |           | 1       |
|            | ======================================= | ======================================= | ======= |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ======= | ========  | ======  |
| ) I        |                                         | 91917                                   | 15.77   | 382623                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18.09   | 307623    | 25.35 l |
| <b>J 2</b> | 9810281DL                               | 116308                                  | 15.78   | 558579                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 18.11   | 421529    | 25.37   |
| 03         |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           |         |
| 34         |                                         |                                         | !       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           | !       |
| 0.5        |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           |         |
| 06         |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           |         |
| 37 I       |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           |         |
| 381        |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           |         |
| 09         |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           |         |
| 101        |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | [       |           |         |
| 121        |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <br>    |           |         |
| 13         |                                         | 1                                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | / /<br> |           |         |
| 141        |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | '  <br> |           |         |
| 15         | 1                                       | 1                                       | '       | THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED AND POST OF THE PERSON NAMED |         |           |         |
| 161        |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ,<br>   |           |         |
| 17         |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           | 1       |
| 181        |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           |         |
| 191        |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           |         |
| 201        |                                         |                                         |         | Stead with which there was some times about a large                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |           |         |
| 21         |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | l       |           |         |
| 22         |                                         |                                         |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | l       |           |         |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

V-13

# **ACCREDITED LABORATORIES**

# GCMS-VOLATILES INSTRUMENT DETECTION LIMITS (IDL)

Instrument: GCMS

Instrument ID: HP5970BD

Column: RTX502.2 (105m x 0.53mm ID x 3.0um film thickness)

Date Analysed: 01/07/98 Analyst: William Llorente

| ANALYTES                  | REP 1 | REP 2 | REP 3 | AVERAGE | STD DEV | MDL    |
|---------------------------|-------|-------|-------|---------|---------|--------|
| Chloromethane             | 9.12  | 10.85 | 7.38  | 9.1167  | 1.4166  | 4.8349 |
| Bromomethane              | 13.04 | 13.73 | 11.38 | 12.7167 | 0.9862  | 3.3661 |
| Vinyl chloride            | 10.41 | 11.60 | 9.04  | 10.3500 | 1.0460  | 3.5699 |
| Chloroethane              | 9.57  | 10.88 | 8.64  | 9.6967  | 0.9189  | 3.1360 |
| Methylene chloride        | 11.90 | 11.37 | 10.94 | 11.4033 | 0.3926  | 1.3400 |
| Acetone                   | 14.49 | 13.76 | 16.41 | 14.8867 | 1.1176  | 3.8145 |
| Carbon disulfide          | 8.71  | 10.65 | 7.18  | 8.8467  | 1.4199  | 4.8462 |
| 1,1-Dichloroethene        | 10.69 | 9.96  | 9.23  | 9.9600  | 0.5960  | 2.0343 |
| 1,1-Dichloroethane        | 11.00 | 10.90 | 9.82  | 10.5733 | 0.5342  | 1.8234 |
| cis-1,2-Dichloroethene    | 11.21 | 10.65 | 9.73  | 10.5300 | 0.6101  | 2.0824 |
| trans-1,2-Dichloroethene  | 10.59 | 9.90  | 9.42  | 9.9700  | 0.4802  | 1.6390 |
| Chloroform                | 11.33 | 11.08 | 10.22 | 10.8767 | 0.4754  | 1.6226 |
| 1,2-Dichloroethane        | 11.93 | 11.03 | 10.64 | 11.2000 | 0.5402  | 1.8437 |
| 2-Butanone                | 11.48 | 11.47 | 12.30 | 11.7500 | 0.3889  | 1.3274 |
| 1,1,1-Trichloroethane     | 11.41 | 11.33 | 10.01 | 10.9167 | 0.6419  | 2.1909 |
| Carbon tetrachloride      | 11.03 | 10.78 | 8.71  | 10.1733 | 1.0398  | 3.5487 |
| Bromodichloromethane      | 11.10 | 10.64 | 9.48  | 10.4067 | 0.6816  | 2.3264 |
| 1,2-Dichloropropane       | 11.72 | 11,02 | 10.36 | 11.0333 | 0.5553  | 1.8952 |
| cis-1,3-Dichloropropene   | 10.73 | 10.67 | 9.57  | 10.3233 | 0.5332  | 1.8200 |
| Trichloroethene           | 11.69 | 10.74 | 10.21 | 10.8800 | 0.6123  | 2.0897 |
| Benzene                   | 11.38 | 11.08 | 10.10 | 10.8533 | 0.5466  | 1.8655 |
| Dibromochloromethane      | 11.11 | 10.70 | 9.23  | 10.3467 | 0.8071  | 2.7548 |
| √,1,2-Trichloroethane     | 11.31 | 11.35 | 10.74 | 11.1333 | 0.2786  | 0.9509 |
| trans-1,3-Dichloropropene | 9.06  | 9.45  | 8.84  | 9.1167  | 0.2522  | 0.8609 |

| Bromoform                 | 11.56 | 10.28 | 8.89  | 10.2433 | 1.0903 | 3.7213   |  |
|---------------------------|-------|-------|-------|---------|--------|----------|--|
| 2-Hexanone                | 12.29 | 11.33 | 11.28 | 11.6333 | 0.4648 | 1.5863   |  |
| 4-Methyl-2-pentanone      | 12.30 | 11.22 | 12.37 | 11.9633 | 0.5264 | 1.7966   |  |
| Tetrachioroethene         | 12.69 | 10.79 | 10.83 | 11.4367 | 0.8864 | 3.0253   |  |
| 1,1,2,2-Tetrachloroethane | 12.86 | 11.00 | 11.16 | 11.6733 | 0.8416 | 2.8725   |  |
| Toluene                   | 11.67 | 10.95 | 10.44 | 11.0200 | 0.5046 | 1.7221   |  |
| Chlorobenzene             | 11.87 | 11.03 | 10.25 | 11.0500 | 0.6615 | 2.2577   |  |
| Ethylbenzene              | 12.15 | 10.55 | 11.14 | 11.2800 | 0.6607 | 2.2548 ' |  |
| Styrene                   | 11.62 | 10.51 | 10.28 | 10.8033 | 0.5851 | 1.9968   |  |
| m,p-Xylene                | 12.33 | 11.71 | 10.45 | 11.4967 | 0.7822 | 2.6696   |  |
| o-Xvlene                  | 12.44 | 10.83 | 10.34 | 11.2033 | 0.8970 | 3.0616   |  |

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#### 00000000550 (FB5R450FQRQ), 0%0 ( PRESENTE COCKACT AVAILABLE DATE

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| 1-73 (271000)         | *************************************** |
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| <b>₹</b>           | (文質・大学等)                                 | \$ 42           | ***      | . Ā∜. <b>#</b>      | 77787 (5%                                 | .2.40                                         | #1.k      |
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| ##e *              | \$160° 10° \$1.00                        | 3               | :        | 1,2432              | βroπtrepr e∉rvetræf∉                      | •                                             | ž         |
| न् <b>र</b> िशेष्ठ | 11 121 pg (#136)                         |                 | :        | ^:: 7%              | ]                                         | ₫                                             | ŧ         |
| 4 57               | Tetrolene in to to                       | is t            |          | 460000              | Seank bil (-Init Congressane              | 3                                             | ž         |
| × 1                | \$0270%f                                 | :               | :        | 11,75%              | ให้ใช่ให้ที่ต้อสักษาในกับไฮเลือก          | ¥.                                            | y         |
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| 35.324             | Trackforstiporsoperates                  | ;               | 4        | 77,733              | . N# var on <del>e</del>                  |                                               | ۶         |
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| 7#3                | 1,3:0:chiarcecagne                       | ij              | :        | .07)24              | ได้มาเปล่าเลยใหล่                         | , <u>, , , , , , , , , , , , , , , , , , </u> | >         |
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| 5000                                                               | (), z, z, z, z, w                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ٧,         | ;:\`       | 2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>200          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | Ψ;<br>      |
| 130                                                                | 3450100000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | **1        | <u></u>    | eris<br>Ora                                                          | \$ 6.00 ( 20 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C to 10 C | .*>                                      | . Ş.        |
| 5 5 6 8 °                                                          | 1.5410000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ,          | : ;        | ::<br>::#<br>::::                                                    | OR USE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE |                                          | ::          |
| 9                                                                  | お客はあるというとしょうでき                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ,,         | Ž          | 57.855.7<br>1                                                        | 20 60 PM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .>,                                      | /22<br><br> |
| 14 14 A                                                            | Sarese 18********                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ,          | !;         | [1],<br>[1],<br>[2],<br>[3],<br>[4],<br>[4],<br>[4],<br>[4],<br>[4], | **************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | יישי                                     | ÷.          |
|                                                                    | 于1645年李子子,1645年李子子,1646年,1846年,1846年,1846年,1846年,1846年,1846年,1846年,1846年,1846年,1846年,1846年,1846年,1846年,1846年,18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ^          | 9          | *: *:                                                                | 113 113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ٧                                        | N           |
| **<br>  } .                                                        | Eranad daioro Bulge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | м          | <br>       | 14/4/2                                                               | # 18 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <br>                                     |             |
|                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |            |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |             |

| **************************************         | - 15 15 15 15 15 15 15 15 15 15 15 15 15 | ******* | *************************************** |
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#### QUANT REPORT

or ator ID: WILLIAM Quant Rev: 6 Quant Time: 980922 15:05 result File: ^C0384::QT ata File: >C0384::C2 Injected at: 980922 14:34

Dilution Factor: 1.00000

amn: 9810381

is_: 1696 B(16-20) LMS

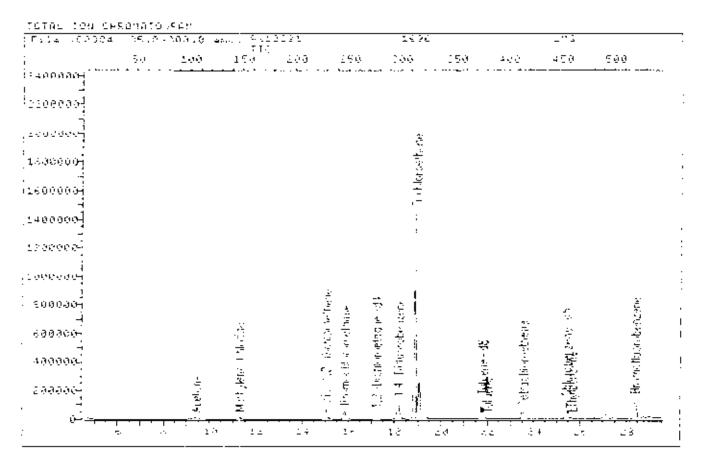
) File: IDCS73::SC

it.e: Accredited Labs Volatile Identity File

a Calibration: 980806 14:39

| Compound                        | R.T.  | Scan# | Area          | Conc   | Units | q   |
|---------------------------------|-------|-------|---------------|--------|-------|-----|
| l) *Bromochloromethane          | 15.83 | 248   | 91520         | 50.00  |       | 96  |
| Methylene Chloride              | 11.27 | 148   | 42228         | 13.78  | _     | 82  |
| ) Acetone                       | 9.40  | 107   | 4502          | 18.65  |       | 100 |
| cis-1,2-Dichloroethene          | 15.01 | 230   | 187279        | 84.55  | ug/l  | 8 2 |
| → 1,2-Dichloroethane-d4         | 17.20 | 278   | 82772         | 46.46  | ug/l  | 8 7 |
| l) *1,4-Difluorobenzene         | 18.16 | 299   | 386722        | 50.00  | ug/l  | 100 |
| ) Trichloroethene               | 18.89 | 315   | 1313570       | 395.37 | ug/l  | 88  |
| <pre>7) *Chlorobenzene-d5</pre> | 25.40 | 456   | 277528        | 50.00  | ug/l  | 100 |
| ); Tetrachloroethene            | 23.52 | 415   | 74788         | 21.22  | ug/l  | 97  |
| 2 Toluene-d8                    | 21.79 | 377   | 357470        | 55.83  | ug/l  | 99  |
| 3) Toluene                      | 21.97 | 381   | 14711         | 2.13   | ug/l  | 88  |
| 5) Bromofluorobenzene           | 28.36 | 521   | 170836        | 45.40  | ug/l  | 90  |
| 5; Ethylbenzene                 | 25.62 | 461   | 963 <b>6M</b> | 1.11   | ug/l  | 97  |

[&]amp; Compound is ISTD



Data File: >C0384::C2

Quant Output File: ^C0384::QT

Name: 9810381

Misc: 1696 LMS B(16-20)

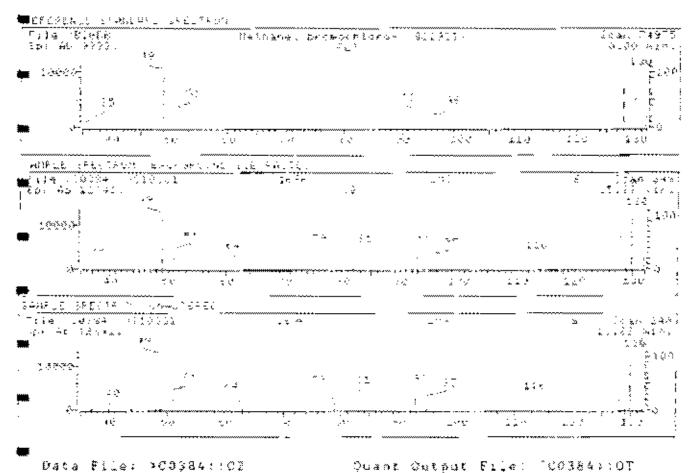
Id File: IDCS73::SC

Title: Accredited Labs Volatile Identity File

Last Calibration: 980806 14:39

Operator ID: WILLIAM

Quant Time: 980922 15:05 Injected at: 980922 14:34



Data File: >C0384::C2

Name: 9816381

Misse: 1898

Quant Time: 980922 15:05

In [eared at: 980922 14:34]

LMS B(16-20)

Ought ID Fale: IDCS73::2C - Last Calibration: 980805 14:39

Compayed No: 1 (ISTD)

Compound Name: Bromochloromethane

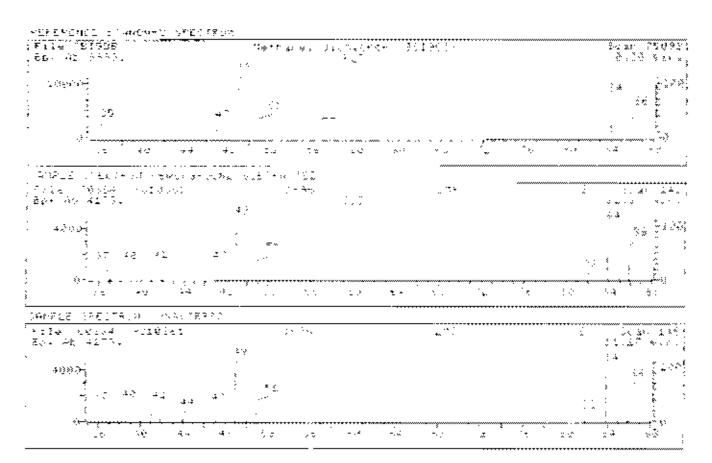
Scan Number: 248

Retention Time: 15.83 mlm.

Quant Ios. (30.0) Areat 91520

Condentiations 50,00 tell

વ∽∀ಹಾಸಿಟ್ಕ: 96



285

Data File: >003840002

₩a5e: 981038:

Mise: 1696

Quant Time: 980932 15:05

Injected at: 980922 \$4:34

Quant Sucput File: "C0384::QT

\$(16-20) Quant ID File: 10C573::5C - Lage Catibration: 980806 [4:39

ដែលកម្មេចក្រស់ No: 9 🦠

Compound Name: Methylene Chioride

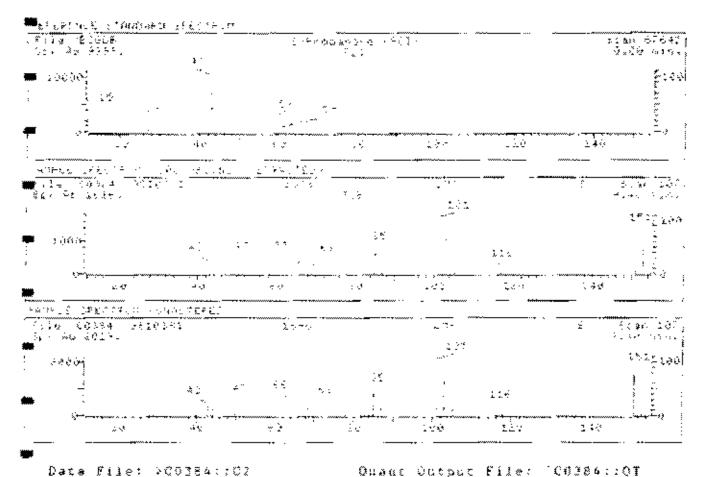
Scan Number: 148

Retention Time: 11.27 min.

Onant Ion: 49.0 Area: 42228

Concentration: 13.78 ug/l

q-value: 82



B(10-20)

Omant 10 Filet [DC273::60

Last Calibration: 980806 14:39

Data File: >00384::02

Name: 9810381

Misc: 1696 LMS

Quant Time: 980922 15:05

Injected at: 480922 la:34

Composed Not 19

Composed Name: Acetobe

Scan Number: 187

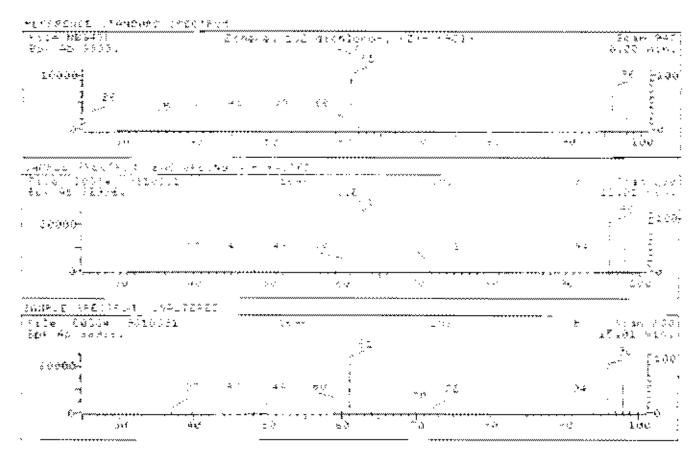
Retention Times 4.40 man.

Onant Lone: #3.0

Area: 4502

Concestration: - 18.55 ng/l

q=v3]t(8: 130



Data File: >C0384::C2

Quant Queput File: [00384::0T

Name: 9810381

Misc: 1696

LM3

B(16-20)

Quant Time: 980922 15:05

Quant ID File: IDCS73::SC

Injected at: 980922 14:34

Last Calibration: 980806 14:39

Compound No: t6

Compound Name: cie-i.2-Dichloroethene

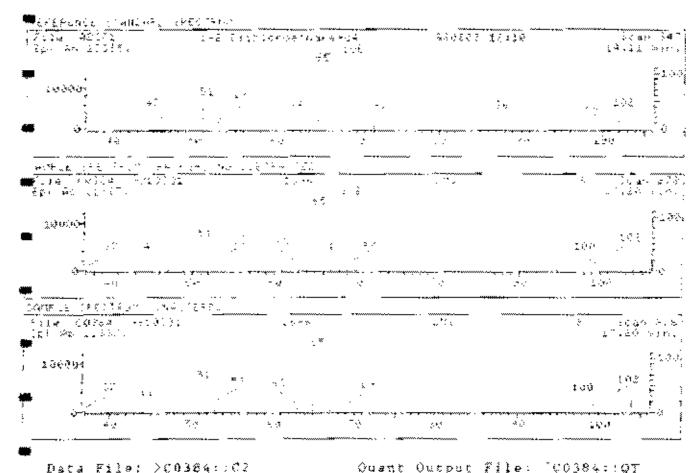
Scan Number: 230

Retencion Time: 15.01 min.

Quant Ion: 61.0 Ares: 187279

84.55 mg/1 Concentration:

ą-valus: 82



Data File: >00384::02

Name: 9816381

Misc: 1698 LMS

Quant Time: 980922 15:05 Quant ID File: IDCS73::SC Injected at: 980922 14:34 Last Calibration: 980806 14:39

B( \$6-20 }

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Companna Name: 1,2-8izhlaraethane-d4

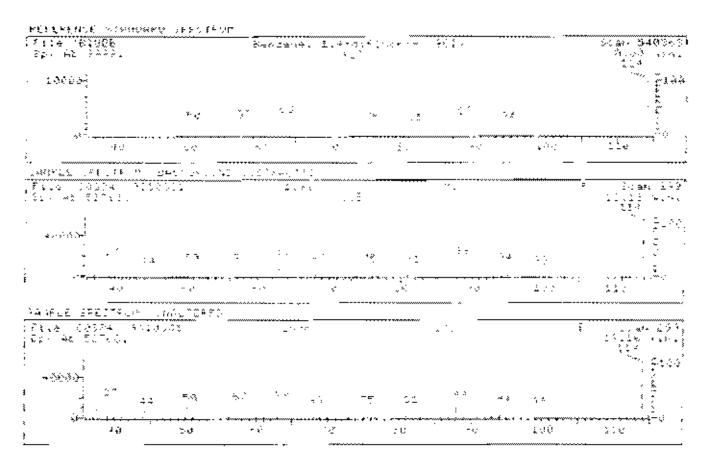
Scan Mumber: 278

Recention Time: 17,29 min.

Quant Top: 55.0 Area: 82732

Compension - 46,46 ug/l

ą-valge: 87



Data #11e: 200384::02

Quant Output File: 'C0384::QT

Name: 98:0381

Misc: :296 LMS

B(16-20)

Quant Time: 980922 15:05 Quant Time: 980922 14:34 Last <

Quant ID File: IDCS79::SC Last Calibration: 980806 [4:39]

Compound No: 21 (1570)

Compagnd Name: 1.4-Diffuorobenzene

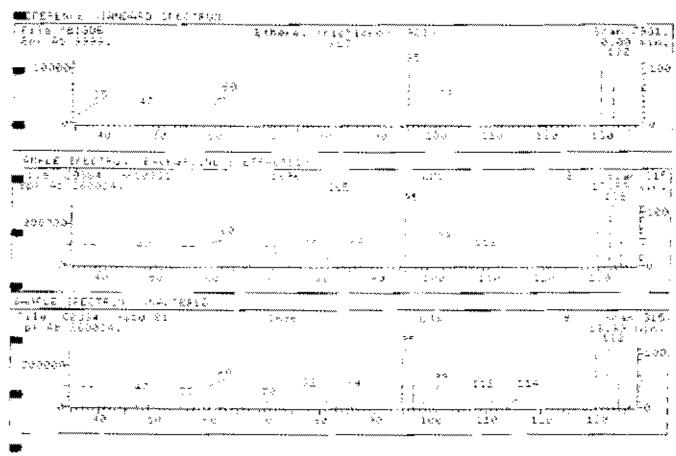
Scan Number: 299

Retention Times (8.15 mic.

Quant Ion: 114.1 Area: 386722

Concentration: 50.00 ug/t

c-value: 100



Data File: >C0384::C2

Name: 9810381

, Misc: 1996 — EMS

Quant Time: 980922 15:09 Injected at: 980922 14:34 Swant Output File: "C0354::0T

B≮(&~20)

Quant ID File: IDC\$73::SC Last Calibration: 980806 (4:39

🎟 ಕರಣಾಧರಗಾದ 🎞 🧸 30

Compound Name: Trichlorsethene

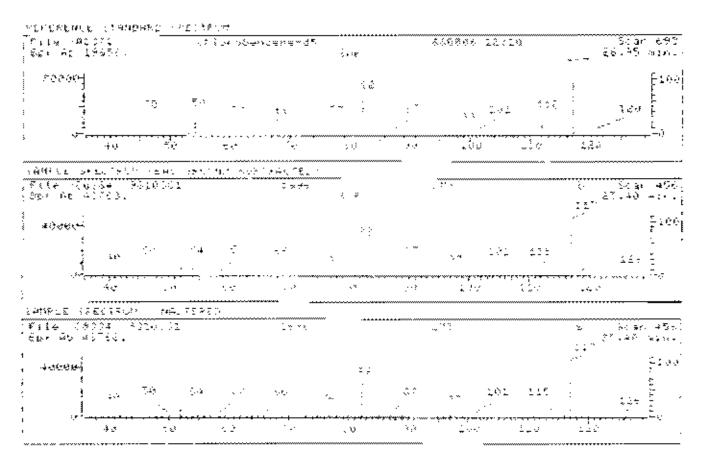
Scan Number: 315

📺 Retention Time: 18.29 min.

Quant lon: 130.0 Area: 1313575

__ Concentration: 395.37 eg/l

drvalue: 88



Data File: >00384::02

Quant Cutput File: 'C0384::QT

Name: 981038)

Misc: 1696 医燃料

B(15-20) Quant Time: 980927 15:05 Quant (0 File: LUCS/3::SC Injected at: 980922 14:34 Last Calibration: 980806 14:39

Compound No: 37 (1970)

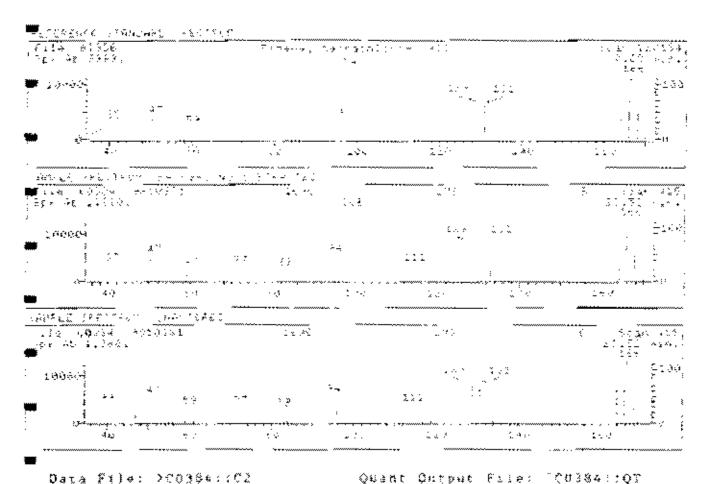
Compound Name: Chlorobenzene do

Scan Number: 456

Retention Time: 25.40 min.

Quant lon: 117.1 277526 Atea:

50.00 ug/: ី១៩៩៩៦៩៩៥ខែក:



Data File: >00384:402

Name: 9810381

Misc: 1696 LMS

Quant Time: 980922 )%:05 Quant 10 Fr)w: IOC5/3::SC Injected at: 980922 | 4:34 | Last Calibration: 980806 | 4:39

\${\$6~Z0)

Composerd No: 40

Composed Name: Tetrachloresthers

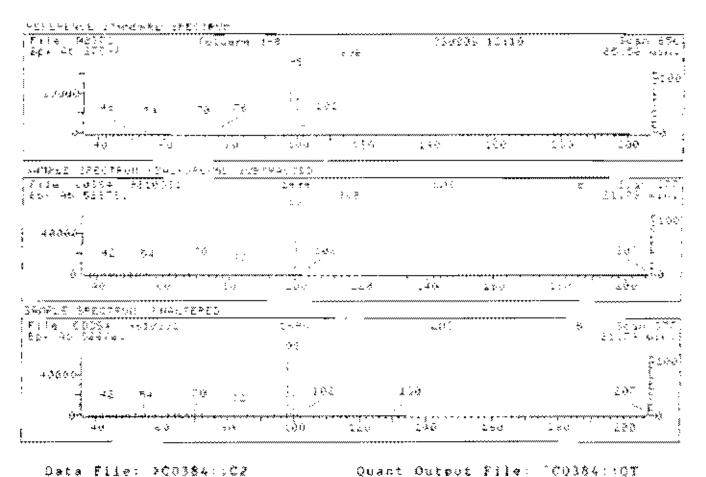
Stan Number: 415

Reception Time: 23.52 min.

Quant Ion: 186.0 Ares: 74780

Concentration: 21.22 ug/i

q~value: 97



2(16-20)

Quant 10 File: IDCS73::SC

| Last Calibration: 980606 14:39

Data File: >€0384:::02

Mása: 1696 I.MS

Quant Time: 980922 15:05

Injected at: 980922 14:34

Compound No: 42

Name: 9810381

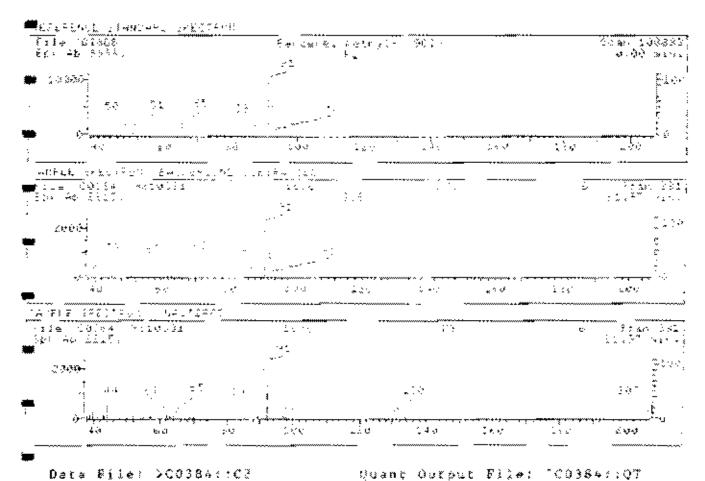
Compound Name: Tolurne-d8

Sean Number: 377

Retablion Fime: 2).39 min.

Quant lon: 98.0 Arva: 357470

Concentration: 55.33 ug/1



B(16~28)

Quant ID file: IDCS/3::SC

Last Calibration: 400005 14:39

Data #ile: >C0384::€3

Name: 98:0341

Misc: 1696 LMS

Quant Time: 980922 15:65

Injected at: 980922 14:34

Compound No: 43

Compound Mame: Taluene

Scan Number: 381

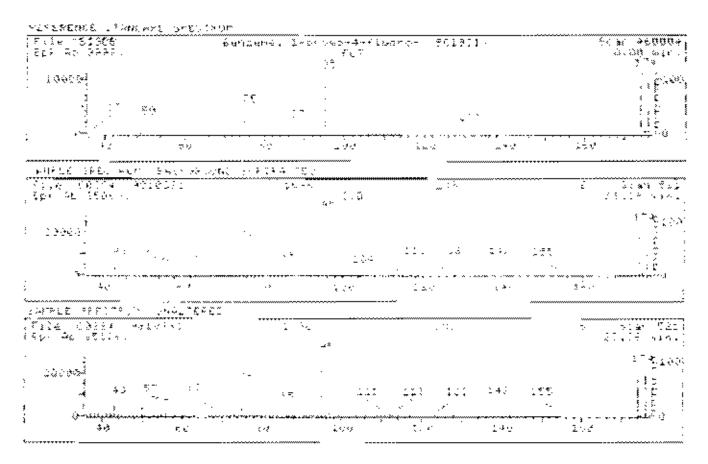
Retention Time: 21.97 min.

Quant lost 91.1

Area: 14711

Concentration: 2.13 Ug/l

q~vmiue: 00



Data File: >C0384::C2 OBast Output File: ^C0384::QT

Name: 9810381

Misc: 1696 LMS \${(6-20)

 Quant Time:
 980922 15:05
 Quant ID File:
 IDCS/3::30

 Injected at:
 980922 14:34
 Last Calibration:
 980806 14:39

Companed No: 45

Compound Name: Sromofluorobenzene

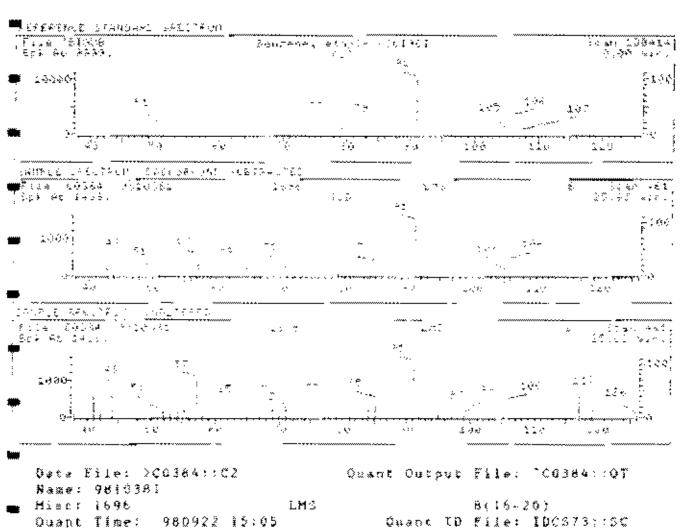
Span Number: 5%1

Retention Time: 28,36 min.

Quant Ion: 95.5 Area: 170836

Concentration: 45.40 eg/;

g-value: 90



Last Calibration: 980806 14:39

Ouant Time: 980922 15:05 Injected at: 980922 14:34

Сопроиза Мо: 46

Composed Name: Ethylbeezene

Scan Wumber: Abl

■ Retention Time: 25.62 min.

Quant Ion: 91.1 Area: 9036M

🕳 Concentration: - i.li ug/i

q~vaiu#: 97

## QUANT REPORT

perator ID: ROBERT Quant Rev: 6 Quant Time: 980923 11:46

ata File: >C0399::C2 Dilution Factor: 1.00000

ame: 9810281DL

isc: 1696 LMS B(16-20)

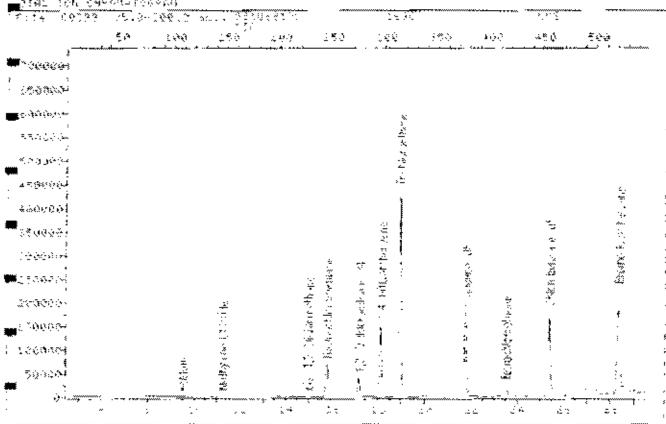
D File: IDCS73::SC

itle: Accredited Labs Volatile Identity File

ast Calibration: 980806 14:39

|    | Compound               | R.T.  | Scan# | Area            | Conc   | Units | q   |
|----|------------------------|-------|-------|-----------------|--------|-------|-----|
| 1) | *Bromochloromethane    | 15.78 | 247   | 116308          | 50.00  | ug/1  | 95  |
| 9) | Methylene Chloride     | 11.22 | 147   | 12649           | 3.25   | ug/l  | 8 2 |
| 0) | Acetone                | 9.48  | 109   | 2486            | 8.10   | ug/l  | 100 |
| 6) | cis-1,2-Dichloroethene | 14.96 | 229   | 8315            | 2.95   | ug/l  | 7 7 |
| 9) | l,2-Dichloroethane-d4  | 17.19 | 278   | 100470          | 44.38  | ug/l  | 8 7 |
| 1) | ☆l,4-Difluorobenzene   | 18.11 | 298   | 558579          | 50.00  | ug/l  | 100 |
| 0) | Trichloroethene        | 18.88 | 315   | 694159 <b>M</b> | 144.65 | ug/l  |     |
| 7) | *Chlorobenzene-d5      | 25.37 | 457   | 421529          | 50.00  | ug/l  | 100 |
| 0) | Tetrachloroethene      | 23.49 | 416   | 25760           | 4.81   | ug/l  | 93  |
| 2) | Toluene-d8             | 21.76 | 378   | 517941          | 53.26  | ug/l  | 99  |
| 5) | Bromofluorobenzene     | 28.34 | 522   | 264716          | 46.31  | ug/l  | 88  |

^{*} Compound is ISTD



Data Film: >00399::02

Quant Gutput File: `CO399::QT

Name: 98102810L

Misc: 1695

LMS

2(:6-20:

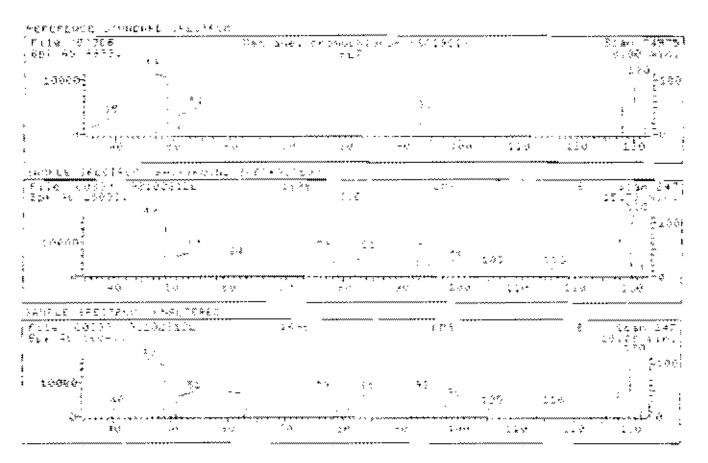
1d file: 100573::50

Title: Accredited Labs Volatile Identity File

Last Calibration: 980806 14:39

Operator ID: ROBERT

Quant Time: 980923 11:46 Injected at: 980923 iiill0



Data #11e; >60394::02

Quant Output File: 'C0399: 'AT

Name: 9310281DL

Misc: (695

LMS B(16-20)

Quant Time: 980923 11:46

Quant ID File: IDCS73::30

Injected at: 480923 11:10

Last Calibration: 980006 14:39

Compound No: (ISTD)

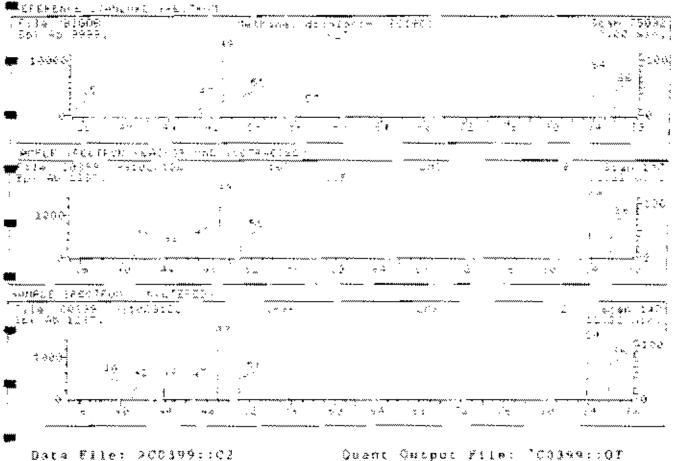
ಲೆರವಳಿದಲ್ಲಿ Name: ಹೀರುಕಾರchloremethaue

Scan Numbert 247

Retwation Time: 15.78 min.

Quant Ion: (30.0) Area: (16308

Concentration: 50.00 ug/1



Data File: 200399::02

Name: 984025iDi.

Misc: 1595 i.MS

Quant Time: \$80923 11:46 - Quant 10 File: 1888/3::\$8 Injected ats 480921 (1:10 Last Calibration: 980806 14:39

8(10-20)

Compound No:

Compound Name: Methylace Chicride

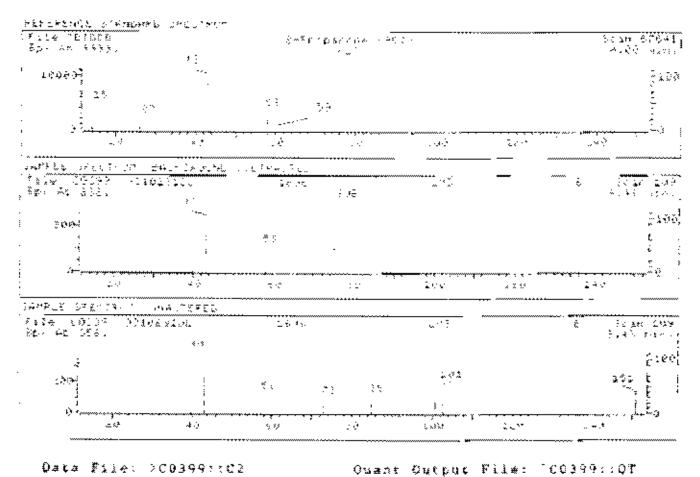
Sass Number: 147

Retention Time: 11,22 min.

Suant fon: 44-6 Area: 12649

Concentration: 3.25 Hg/1

q×valu≠: S2



8(16~20)

Quant ID File: 100873::SC

Lage Calibration: 980505 14:39

Data #114: 000399:102

Name: 98102810L

Misc: 1696 1.83

Quant Time: 980923 11:46

injected an: 989933 II:10

Compound No: 18

Compound Name: Adecume

Scan Number: 109

Retention Time: 9.48 ≫io.

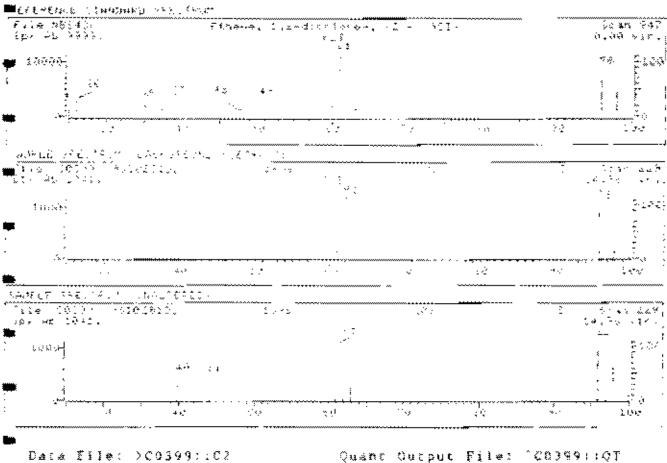
Quant lon: 43.0

Arear 2486

Concentration: 8.10 ug/l

q-value: 100

V.37



Data #11e: >00399::02

B416-201

Misc; 1696

LM5

Quant ID file: [66873::30

Quant Time: 980923 11:46

Injected at: 980923 il:10

Laze Calibration: 980805 14:39

Compound Mame: cis-1,1-Dichloroethene

Scan Number: 229

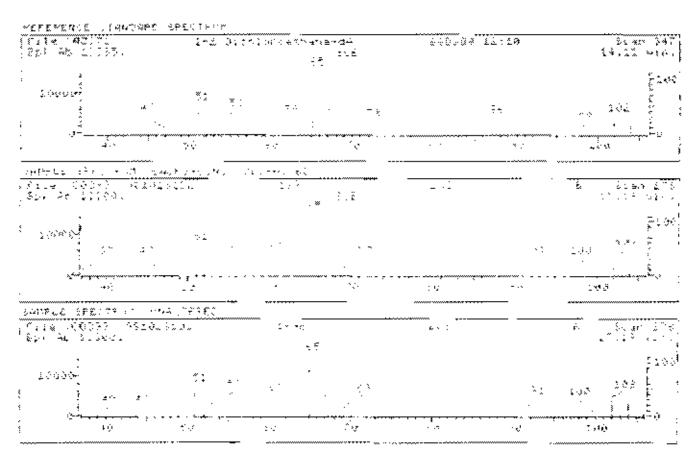
Campound No: 16

Name: 9810281DL

Retention Time: la.95 min.

Quant Tent bi.0 Area: 8315

2.90 00/1 Concentration:



Data File: >C0399::C2

Quant Output File: 100399::QT

Mame: 981028:DC

Misc: 1596 LMS

4S \$(16~20)

Quant Time: 980923 li:45

Quant ID File: IDCS73::SC

Inject#d at: 980923 11110

Last Calibration: 980805 14;39

Compaund No: 19

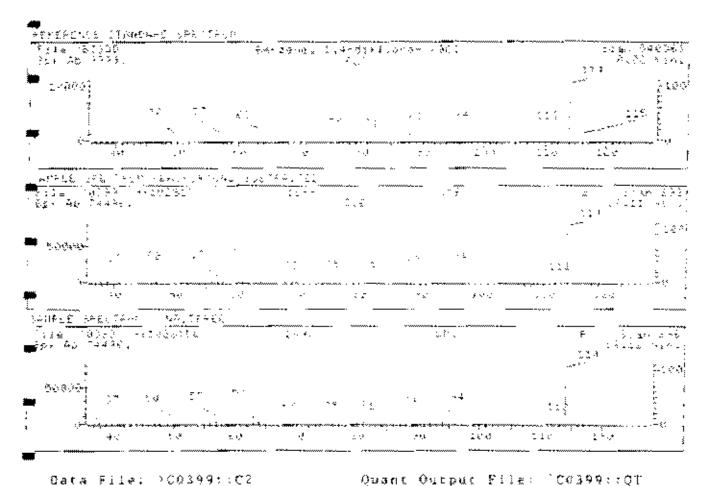
Compound Names 1.2-Dichlorosthama-da

Sean Number: 178

Retention Time: 12.19 min.

Quant Ion: 65.6 Ares: 100470

Concentration: 44.38 ug/t



Bata File: >00399::€2

Name: 981028105

LHS Misc: ಕರಿ96

3 (16-20)

Misc: 1696 LMS B(16-20)
Quant Time: 980923 11:45 Quant ID File: 100873:780
Injected at: 980923 (1:10 Last Calibration: 980806 14:39

Compound No: 21 (ISTD)

Compagnd Name: 1.4-Difluorobenzene

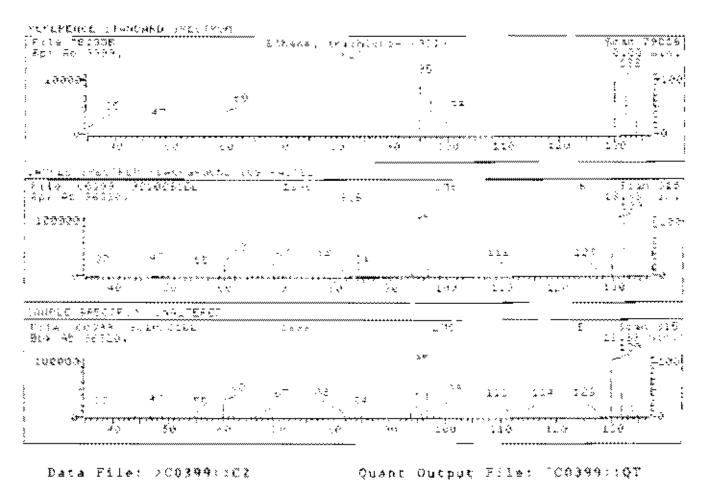
Scan Number: 298

Retention Time: 18.14 min.

Quant Ion: 114.1 Arem: 503579

Concentration: \$6.00 ee/)

q-vains: 100



B(16-20)

Quant ID File: IDCS73::SC Last Calibration: 980806 14:39

Data File: 200399::02

Name: 981028101

Misc: 1696 LHS.

Quant Time: 980923 [[:46 Injected st: 980923 11:10

Сопрочно ба: 30

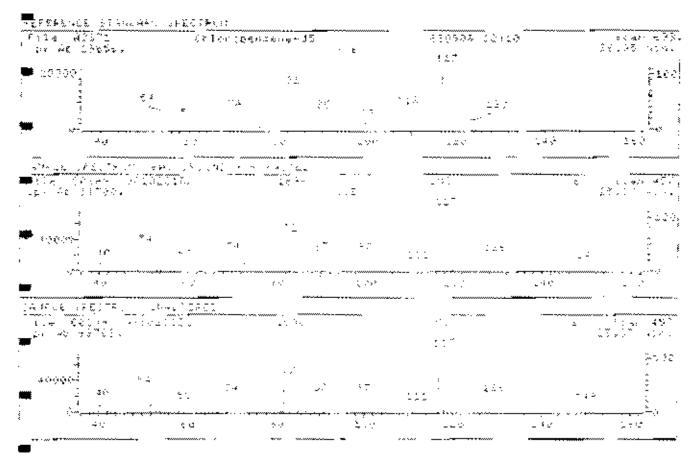
Compound Name: Trichlaraethene

Scan Number: 315

Retention Time: 18.88 min.

Quant fon: 130.0 Area: 594159M

Concentration: [44.65 dg/]



Data file: >#1349::02

Mame: 981028181

Misc: 3696 lm:

Injected ar: 980923 |.:10 | Dast Calibration: 980806 | 4:34

Ogent Output File: 1003941:07

8((6~20) Quant ID File: [DC\$23::SC

Compound No: 37 (ISTE)

Compaise Name: Chlorobenzene-d5

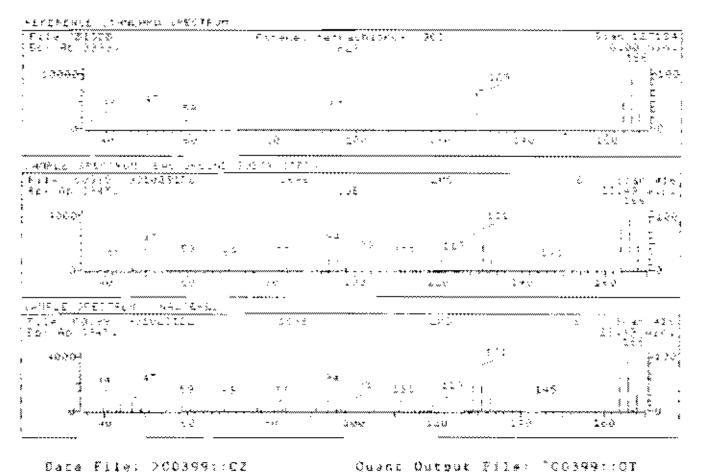
Scan Wambert 457

Retention Time: 25.37 min.

Quest lon: 117.1 Area: 421529

Concentration: - 50.00 ug/i

ą~∀alue: 100



Data File: 200399::02

Name: 981028101

LMS Misc: 1595

\$(:0-20) Quant Time: Quant 10 File: 10CS73::SG 485923 11:45 Injected at: 4#0423 11:10 Last Calibration: 98080% 14:39

Compound No: 40

Compound Name: Tetrachlorowthere

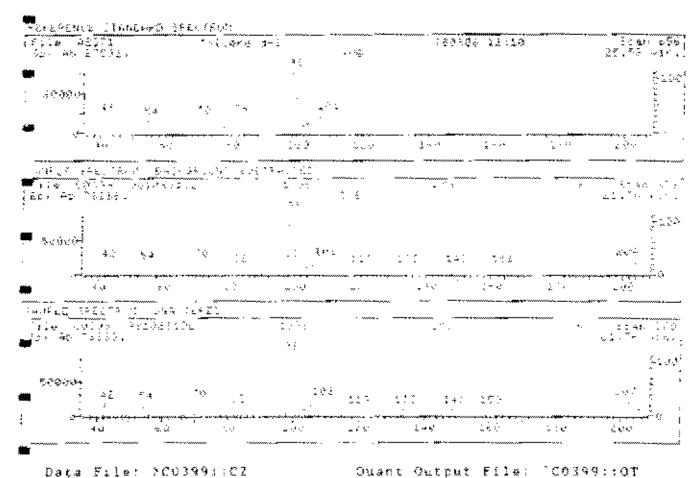
Scan Number: 416

Retention Time: 23.49 min.

Quant fon: (56.0 Z5360

Concentration: 4.81 ug/1

d-selver 33



5(16-20) Quant ID file: %DCS73::5C

Data File: 2003993:02

Name: 9810/8/DL

Misc: 1896 LMS

Owant Time: 984923 ():46 injected at: 980923 [1:10 Last Calibration: 980006 [4:39

Compound Not 42

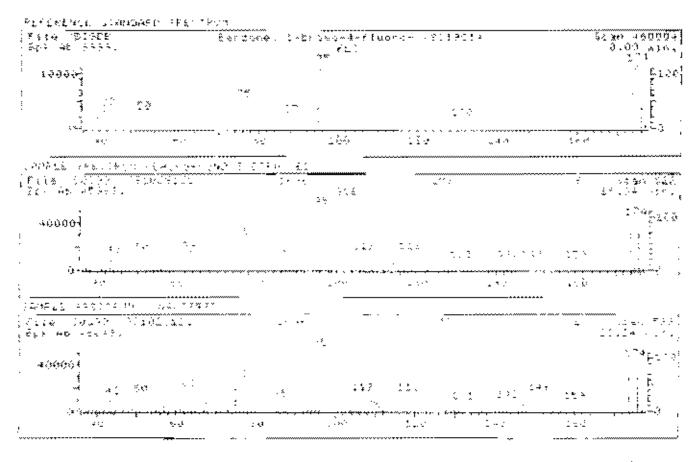
Compound Name: Tolugne-d8

Scan Number: 378

Retention Time: \$1.76 min.

Quant Lon: 98.0 Ares: 517941

53.26 ug/l Concentration:



Data Tile: >00399::02

Ouann Output File: 100349::07

Name: 961028101

Misc: 1696 - .Må

î.M.S B(16-20)

Quant Time: 980933 11:46 Guant ID File: IDCS73::SC

Injected act 980923 fl/10 Last Calibration: 980806 14:39

Compound No: 42

Compound Name: Bromufluorebenzene

Scan Number: 522

Retention Time: 28.34 min.

Quant Ion: 95.0 Area: 264716

Concentration. 45.31 eg/(

ase No: Instrument 10: HP5790BC .omractor: Accredited Labs Calibration Date: 08/06/98 ract No: CACS73 ------Minimum RF for SPCC is .30 Maximum 4 RSD for CCC is 25.04 :09597 >C9596 >C9599 ·C9600 Laboratory ID: >€9598 RF RF RF RF RF 10.00 20.00 50.00 100.00 200.00 4 RSD CCC SPCC Compound torolein .07558 . 07395 .07745 08161 .583 .07545 6.301 (Conc=100.0,200.0,500.0,1 c lonitrile .16518 . 15227 . 15554 .17532 5.574 .16077 .741 .16181 (Conc=100.0,200.0,500.0,1 Fr_n-113 _ ... . ---.. . 69530 .66906 . 348 8,096 hloromethane .60222 .61199 .57069 . 62985 ir~momethane 1.05558 1.04652 .97925 1.05867 .99820 .437 1.02765 3.545 Ji 1 Chloride .73791 .71619 .59393 .57402 .53984 .366 .63238 14.057 ChToroethane .64880 .65293 .63044 .65672 .64166 64611 .445 1.608 1ethylene Chloride 2.73620 1.79107 1.32101 1.27225 1.24924 .714 1.67395 37.881 la one .16264 .13103 .12075 13320 .11173 .598 .13187 14.578 .76110 .76347 .76591 .80367 .79573 lamon Disulfide .709 .77798 2.584 [rich]orofluoromethane 1.56575 1.50430 1.46205 1.52854 1.47930 .490 1.50799 2.715 i. Dichloroethene 1.32777 1.29182 1.24749 1.34826 1.31109 .617 1.30529 2.944 1.79846 1.73347 1.68443 1.83462 1.78061 .846 1.76632 3.312 1,__Dichloroethane [-buty] alcohol .04986 .04675 .04979 .05871 .05418 .646 .05186 8.976 (Conc=100.0,200.0,500.0,1 sis-1,2-Dichloroethene 1.21322 1.18851 1.15152 1.26893 1.22838 .949 1.21011 3.626 or s-1,2-Dichloroethene 1.41332 1.37648 1.33261 1.44429 1.40127 .769 1.39360 3.008 Chioroform 2.17659 2.07449 2.00876 2.22358 2.14914 .974 2.12651 4,005 1,2-Dichloroethane-d4 1.00122 .95184 .93883 1.04055 .93370 1.087 .97323 4.742 1. Dichloroethane 1.18856 1.11109 1.09891 1.22199 1.15355 1.102 1.15482 4.477 ?- tanone .07283 .06257 .06278 .07663 .803 .06784 9.531 .06441 . 35558 1ethyl t-butyl ether .32834 . 32475 .34850 . 25395 . 651 . 32222 12.519 (Conc=100.0,200.0,500.0,1 1. 1-Trichloroethane .53622 .50919 .50043 .55344 .52709 . 905 . 52528 4.030 افسیon Tetrachloride .42993 .44345 .42302 .43137 .47863 45432 . 938 5.169 Jinyl Acetate .16367 .18559 .21901 .14577 .07411 .742 . 15763 34.312 3ramodichloromethane .49622 .47340 .48077 .55358 .52215 1.098 .50523 6.502 1. Dichloropropane .30216 . 28249 .27641 .31165 .28809 1.067 . 29216 4.954 □ 1.3-Dichloropropene .39679 .38965 .39872 . 44523 1.168 .41022 5.547 .42068 (Conc=10.6,21.2,53.0,106. Trichloroethene .44721 41972 .41616 .44795 .41674 1.043 .42956 3.844 .79285 .77017 3 zene .84884 . 84487 .78259 .962 .80786 4.520 .42825 .41815 .44343 .49980 .46513 1.322 .45095 Response Factor (Subscript is amount in uq/1) Average Relative Retention Time (RT Std/RT Istd) Average Response Factor

Percent Relative Standard Deviation

- Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Form VI Page 1 of 2

### initial calibration vata HSL Compounds

Case No: Instrument ID: HP5790BC

Calibration Date: 08/06/98 Contractor: Accredited Labs

Contract No: CACS73

Minimum RF for SPCC is .30 Maximum % RSD for ECC is 25.0%

| Laboratory ID:                | >C9598<br>RF | :09597      | ∍[ <b>9</b> 596 | ,[9590<br>00 | >C9300       |       |         |        |     |      |                           |
|-------------------------------|--------------|-------------|-----------------|--------------|--------------|-------|---------|--------|-----|------|---------------------------|
| Compound                      | 10.00        | RF<br>20.00 | RF<br>50.00     | RF<br>100.00 | RF<br>200.00 | RRT   | RF      | % RSD  | 000 | SPEC |                           |
|                               |              | *           |                 |              |              |       |         |        |     |      |                           |
| 1.1.2-Trichloroethane         | . 27551      | .25498      | . 25704         | . 28927      | .26629       | 1.253 | . 26862 | 5.263  |     |      |                           |
| :rans-1,3-Dichloropropene     | . 35242      | . 33617     | . 35702         | .40949       | .39053       | 1 233 | .36913  | 8.126  |     |      | (Conc=9.4,18.8,47.0,94.0, |
| 2-Chloroethylvinylether       | .12655       | .12056      | .12783          | .06245       | .14724       | 1.138 | .11693  | 27.418 |     |      |                           |
| iromoform .                   | . 26432      | . 26380     | .28611          | . 34305      | .33079       | 1.528 | . 29762 | 12.515 |     | **   |                           |
| ?-Hexanone                    | .12385       | .11624      | .12324          | . 14595      | 11718        | .897  | .12529  | 9.616  |     |      |                           |
| i-Methyl-2-pentanone          | . 31985      | . 30448     | .31515          | . 28337      | .30092       | . 816 | . 30475 | 4.665  |     |      |                           |
| ^f etrachloroethene | . 67756      | .66167      | . 65525         | . 64682      | . 53296      | . 926 | . 63485 | 9.146  |     |      |                           |
| .,1,2,2-Tetrachloroethane     | . 33400      | . 32828     | . 33370         | .37086       | .29801       | 1.108 | . 33297 | 7.775  |     | **   |                           |
| foluene-d8                    | 1.24049      | 1.18919     | 1.17015         | 1 22008      | .94733       | .858  | 1.15345 | 10.263 |     |      |                           |
| oluene                        | 1.33460      |             | 1.25496         | 1.33389      | 1.00282      | . 866 | 1.24521 | 11.191 | *   |      |                           |
| Chlorobenzene                 | 1.03931      | . 99717     | .99302          | 1.01749      | .86985       | 1.004 | .98337  | 6.719  |     | ##   |                           |
| Gromofluorobenzene            | . 69508      | . 66107     | , 65 <b>806</b> | .75311       | .62256       | 1.116 | .67798  | 7,260  |     |      |                           |
| lthylbenzene                  | 1.67244      | 1.62335     |                 | 1.76646      | 1.18301      | 1.009 | 1.56323 | 14.357 | *   |      |                           |
| ityrene                       | .91133       | .91103      | . 92076         | . 97568      | .82353       | 1.061 | .90847  | 6.004  |     |      |                           |
| 1,p-Xvlene                    |              |             |                 | 1.13506      | .13462       | 1.016 | 1.10383 | 50.451 |     |      | (Conc=20.0,40.0,100.0,200 |
| :-Xy lene                     | 1.32879      |             | _               | 1.27148      | .95931       | 1.057 | 1.20554 | 12.067 |     |      |                           |
| laphthalene                   | . 15555      | 12564       | . 14951         | . 25604      | . 25216      | 1,466 | .18778  | 32.794 |     |      |                           |

⁻ Response Factor (Subscript is amount in ug/1)

Average Relative Retention Time (RT Std/RT Istd)

⁻ Average Response Factor

[:]RSD - Percent Relative Standard Deviation

CC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

# QUANT REPORT

Quant Rev: 6 Quant Time: 980806 12:30 p rator ID: WILLIAM reput File: ^C9598::D2 ata File: >C9598::C2 Injected at: 980806 11:51 Dilution Factor: 1.00000

a e: VSTD010

i_c:

) File: IDCS72::SC

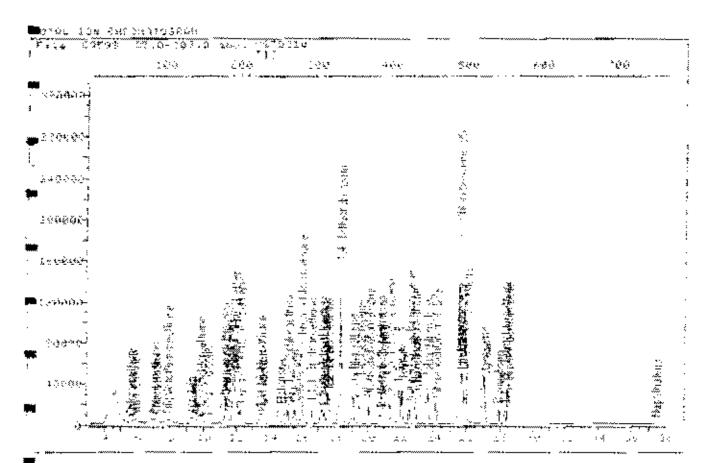
i le: Accredited Labs Volatile Identity File

ast Calibration: 980716 14:03

| Compound                                   | R.T.  | Scan# | Area   | Conc   | Units | q   |
|--------------------------------------------|-------|-------|--------|--------|-------|-----|
| 1) *Bromochloromethane                     | 15.93 | 284   | 128938 | 50.00  | ug/l  | 94  |
| 2 Acrolein                                 | 9.27  | 138   | 19491  | 263.28 | _     | 90  |
| 3_ Acrylonitrile                           | 11.83 | 194   | 42595  | 97.08  | ug/l  | 88  |
| 5) Chloromethane                           | 5.57  | 5 7   | 17930  | 10.22  | ug/l  | 85  |
| 5) Bromomethane                            | 6.99  | 88    | 27221  | 11.04  | ug/l  | 97  |
| 7 Vinyl Chloride                           | 5.85  | 63    | 19029  | 9.87   | ug/l  | 86  |
| 3 Chloroethane                             | 7.12  | 91    | 16731  | 9.69   | ug/l  | 99  |
| 9) Methylene Chloride                      | 11.37 | 184   | 70560  | 18.43  | ug/l  | 8 2 |
| 0 Acetone                                  | 9.50  | 143   | 4194   | 10.27  | ug/l  | 100 |
| lm Carbon Disulfide                        | 11.28 | 182   | 19627  | 3.81   | ug/1  | 95  |
| <ol> <li>Trichlorofluoromethane</li> </ol> | 7.81  | 106   | 40377  | 4.45   | ug/l  | 91  |
| <pre>3 1,1-Dichloroethene</pre>            | 9.82  | 150   | 34240  | 6.56   | ug/l  | 86  |
| 4_ l,l-Dichloroethane                      | 13.47 | 230   | 46378  | 8.11   | ug/l  | 95  |
| 5) T-butyl alcohol                         | 10.23 | 159   | 12858  | 69.09  | ug/l  | 84  |
| 6) cis-1,2-Dichloroethene                  | 15.11 | 266   | 31286  | 6.91   | ug/1  | 8 2 |
| <pre>7 trans-1,2-Dichloroethene</pre>      | 12.24 | 203   | 36446  | 7.49   | ug/l  | 96  |
| 8 Chloroform                               | 15.52 | 275   | 56129  | 7.57   | ug/l  | 99  |
| 9) l,2-Dichloroethane-d4                   | 17.30 | 314   | 25819  | 7.52   | ug/1  | 8 7 |
| 0 l,2-Dichloroethane                       | 17.53 | 319   | 30650  | 6.14   | ug/l  | 95  |
| l <b>m</b> ≉l,4-Difluorobenzene            | 18.26 | 335   | 496233 | 50.00  | ug/l  | 100 |
| 2) 2-Butanone                              | 14.66 | 256   | 7228   | 10.92  | ug/l  | 96  |
| 3 Methyl t-butyl ether                     | 11.87 | 195   | 352904 | 61.09  | ug/l  | 94  |
| 4_ l,l,l-Trichloroethane                   | 16.53 | 297   | 53218  | 6.22   | ug/l  | 94  |
| 5) Carbon Tetrachloride                    | 17.17 | 311   | 42669  | 5.21   | ug/l  | 97  |
| 6) Vinyl Acetate                           | 13.56 | 232   | 16244  | 4.60   | ug/l  | 96  |
| 7 Bromodichloromethane                     | 20.04 | 374   | 49248  | 7.19   | ug/l  | 98  |
| 8# l,2-Dichloropropane                     | 19.49 | 362   | 29988  | 10.08  |       | 98  |
| 9) cis-1,3-Dichloropropene                 | 21.32 | 402   | 41743  | 9.18   |       | 97  |
| 0 Trichloroethene                          | 19.04 | 352   | 44384  | 10.62  | -     | 83  |
| i Benzene                                  | 17.58 | 320   | 84244  | 10.23  |       | 100 |
| <ol><li>Dibromochloromethane</li></ol>     | 24.15 | 464   | 42502  | 7.83   | _     | 96  |
| 3' 1.1,2-Trichloroethane                   | 22.87 | 436   | 27343  |        | _     | 86  |
| 4 trans-1,3-Dichloropropene                | 22.51 | 428   | 32878  | 7.08   |       | 99  |
| 57 2-Chloroethylvinylether                 | 20.77 | 390   | 12560  | 10.52  | _     | 95  |
| 6) Bromoform                               | 27.89 | 546   | 26233  | 7.43   |       | 100 |
| 7 *Chlorobenzene-d5                        | 25.52 | 494   | 407707 | 50.00  |       | 100 |
| 2-Hexanone                                 | 22.92 | 437   | 10099  | 8.43   | -     | 78  |
| 9) 4-Methyl-2-pentanone                    | 20.82 | 391   | 26081  | 8.60   | _     | 7 2 |
| ( Tetrachloroethene                        | 23.65 | 453   | 55249  | 9.91   |       | 97  |
| 1,1,2,2-Tetrachloroethane                  | 28.26 | 554   | 27235  | 9.91   | _     | 100 |
| 2) Toluene-d8                              | 21.91 | 415   | 101151 | 10.36  | ~     | 94  |
| ?` Toluene                                 | 22.10 | 419   | 108825 | 10.31  |       | 90  |
| Chlorobenzene                              | 25.61 | 496   | 84747  | 10.88  | ug/l  | 97  |

|          | Compound                           | R.T.  | Scan#      | Area                     | Conc  | Units        | q        |
|----------|------------------------------------|-------|------------|--------------------------|-------|--------------|----------|
| = \      | Dunna filment han and              | 20 /0 |            | 56670                    | 0.24  |              | 0.2      |
| 5)<br>5) | Bromofluorobenzene<br>Ethylbenzene | 28.49 | 559<br>499 | 56678<br>136373 <b>M</b> |       | ug/l<br>ug/l | 92<br>64 |
| 7)       | Styrene                            | 27.07 | 528        | 74311                    |       | ug/1         | 96       |
| ,        | m,p-Xylene                         | 25.93 | 503        | 241072                   | 18.96 | -            | 93       |
| 9)       | o-Xylene                           | 26.98 | 526        | 108351                   | 8.72  | ug/l         | 96       |
| ))       | Naphthalene                        | 37.43 | 755        | 12684                    | 7.62  | ug/l         | 100      |

[&]amp; Compound is ISTD



Data F(le: >09598::02

Owent Cutput File: "C9598::D2

Name: VSTD610

m Miest

Id File: IDCS/7::SC

Title: Actredited Labs Volatile Identity File

last Calibration: 980715 14:03

Operator ID: WILLIAM

Ovant Time: 980808 12:30 injected at: 980806 11:51

## QUANT REPORT

 perator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 980806 11:43

 utput File: ^C9597::D2
 Injected at: 980806 11:04

 ata File: >C9597::C2
 Dilution Factor: 1.00000

ame: VSTD020

isc:

D File: IDCS72::SC

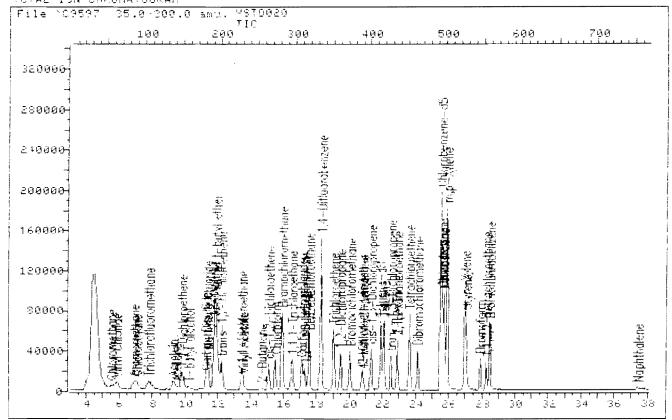
itle: Accredited Labs Volatile Identity File

ast Calibration: 980716 14:03

|            | Compound                  | R.T.  | Scan#      | Area   | Conc   | Units | q          |
|------------|---------------------------|-------|------------|--------|--------|-------|------------|
| 1)         | *Bromochloromethane       | 15.93 | 284        | 129780 | 50.00  | ug/l  | 94         |
| 2)         | Acrolein                  | 9.27  | 138        | 38390  | 515.20 |       | 91         |
| 3)         | Acrylonitrile             | 11.78 | 193        | 79044  | 178.99 | -     | 91         |
| 5)         | Chloromethane             | 5.53  | 56         | 34732  | 19.67  | _     | 90         |
| 5)         | Bromomethane              | 6.94  | 8 7        | 54327  | 21.88  | _     | 97         |
| 7)         | Vinyl Chloride            | 5.85  | 63         | 37179  |        | _     | 90         |
| 3)         | Chloroethane              | 7.08  | 90         | 33895  |        | -     | 98         |
| 9)         | Methylene Chloride        | 11.37 | 184        | 92978  |        | _     | 83         |
| <b>)</b>   | Acetone                   | 9.50  | 143        | 6802   |        | _     | 100        |
| 1)         | Carbon Disulfide          | 11.28 | 182        | 39633  |        | ug/l  | 98         |
| 2)         | Trichlorofluoromethane    | 7.81  | 106        | 78091  | 8.55   | ug/l  | 93         |
| 3)         | l,1-Dichloroethene        | 9.82  | 150        | 67061  | 12.77  | ug/l  | 8 2        |
| 4)         | l,l-Dichloroethane        | 13.47 | 230        | 89988  | 15.64  | ug/1  | 96         |
| 5)         | T-butyl alcohol           | 10.23 | 159        | 24269  | 129.56 | ug/l  | 83         |
| 5)         | cis-1,2-Dichloroethene    | 15.11 | 266        | 61698  | 13.53  | ug/l  | 8 7        |
| 7)         | trans-1,2-Dichloroethene  | 12.24 | 203        | 71456  | 14.59  | ug/l  | 96         |
| 3)         | Chloroform                | 15.52 | 275        | 107691 | 14.43  | ug/l  | 97         |
| 3)         | 1,2-Dichloroethane-d4     | 17.30 | 314        | 49412  | 14.29  | ug/l  | 89         |
| ))         | l,2-Dichloroethane        | 17.53 | 319        | 57679  | 11.48  | ug/l  | 95         |
| l)         | *l,4-Difluorobenzene      | 18.26 | 335        | 504931 | 50.00  | ug/l  | 100        |
| 2)         | 2-Butanone                | 14.65 | 256        | 12638  | 18.76  |       | 91         |
| 3)         | Methyl t-butyl ether      | 11.87 | 195        | 663148 | 112.82 |       | 94         |
| +)         | l,l,l-Trichloroethane     | 16.53 | 297        | 102843 | 11.81  |       | 95         |
| 5)         | Carbon Tetrachloride      | 17.12 | 310        | 85439  | 10.26  |       | 99         |
| ))         | Vinyl Acetate             | 13.56 | 232        | 37484  | 10.44  | -     | 99         |
| 7)         | Bromodichloromethane      | 20.04 | 374        | 95614  | 13.72  | _     | 97         |
| 3)         | l,2-Dichloropropane       | 19.45 | 361        | 57056  | 18.85  | _     | 95         |
| <b>3</b> ) | cis-1,3-Dichloropropene   | 21.32 | 402        | 83421  | 18.03  | _     | 96         |
| ))         | Trichloroethene           | 19.04 | 352        | 84771  | 19.93  | -     | 8.5        |
| .)         | Benzene                   | 17.58 | 320        | 160133 | 19.11  | _     | 100        |
| ?)         | Dibromochloromethane      | 24.10 | 463        | 84454  | 15.30  | _     | 95         |
| 3)         | 1,1,2-Trichloroethane     | 22.87 | 436        | 51498  | 19.77  | -     | 8 9        |
| +)         | trans-1,3-Dichloropropene | 22.51 | 428        | 63824  | 13.50  |       | 99         |
| 5)         | 2-Chloroethylvinylether   | 20.77 | 390        | 24350  | 20.04  | _     | 96         |
| ))         | Bromoform                 | 27.89 | 546        | 53281  | 14.83  | -     | 100        |
| /)         | *Chlorobenzene-d5         | 25.52 | 494        | 404368 | 50.00  |       | 100        |
| 3)         | 2-Hexanone                | 22.87 | 436        | 18802  | 15.82  | ~     | 7 5<br>7 0 |
| 3)         | 4-Methyl-2-pentanone      | 20.82 | 391        | 49248  | 16.38  |       | 78         |
| ))         | Tetrachloroethene         | 23.60 | 452<br>554 | 107024 | 19.36  |       | 92         |
| .)         | 1,1,2,2-Tetrachloroethane | 28.26 | 554        | 53098  | 19.47  | -     | 100        |
| ?)         | Toluene-d8                | 21.87 | 414        | 192348 | 19.87  |       | 97         |
| 3)         | Toluene                   | 22.09 | 419        | 210232 | 20.09  |       | 91         |
| +)         | Chlorobenzene             | 25.61 | 496        | 161289 | 20.88  | ug/1  | 99         |

| ***            | Compound           | R.T.  | Scan# | Area    | Conc  | Units | q   |
|----------------|--------------------|-------|-------|---------|-------|-------|-----|
| 5 '            | Bromofluorobenzene | 28.48 | 559   | 106927  | 17.77 | ug/l  | 94  |
| 5              | Ethylbenzene       | 25.70 | 498   | 262572M | 18.14 | ug/l  | 58  |
| 7)             | Styrene            | 27.07 | 528   | 147357  | 18.73 | ug/l  | 97  |
| 3 )            | m,p-Xylene         | 25.88 | 502   | 456224  | 36.17 | ug/l  | 89  |
| 9              | o-Xylene           | 26.98 | 526   | 205713  | 16.69 | ug/l  | 95  |
| ) <del> </del> | Naphthalene        | 37.43 | 755   | 20322   | 12.30 | ug/l  | 100 |

* :ompound is ISTD



Data File: >C9597::C2

Quant Output File: ^C9597::D2

Name: VSTD020

Misc:

Id File: IDCS72::SC

Title: Accredited Labs Volatile Identity File

Last Calibration: 980716 14:03

Operator ID: WILLIAM

Quant Time: 980806 11:43 Injected at: 980806 11:04

# QUANT REPORT

Quant Rev: 6 Quant Time: 980806 10:57 Injected at: 980806 10:17 >∈ ator ID: WILLIAM ıtmut File: ^C9596::D2 ita File: >C9596::C2 Dilution Factor: 1.00000

in : VSTD050

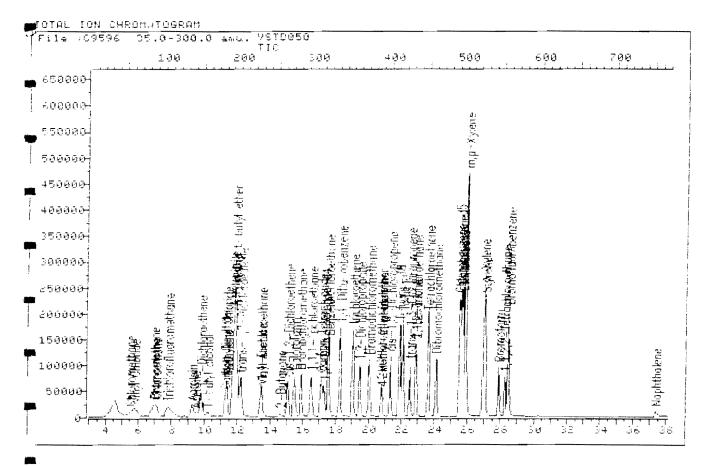
) File: IDCS72::SC

t e: Accredited Labs Volatile Identity File 3 Calibration: 980716 14:03

| Compound                                                                   | R.T.  | Scan#      | Area             | Conc           | Units | q        |
|----------------------------------------------------------------------------|-------|------------|------------------|----------------|-------|----------|
| ) *Bromochloromethane                                                      | 15.88 | 283        | 146539           | 50.00          | ug/l  | 95       |
| Acrolein                                                                   | 9.26  | 138        | 113490           | 1348.88        | -     | 93       |
| 3 Acrylonitrile                                                            | 11.77 | 193        | 227925           | 457.09         | _     | 89       |
| 5) Chloromethane                                                           | 5.51  | 56         | 88249            | 44.25          | _     | 88       |
| Bromomethane                                                               | 6.97  | 88         | 143499           | 51.20          | _     | 98       |
| 7] Vinyl Chloride                                                          | 5.79  | 62         | 87034            | 39.72          | -     | 90       |
| 3 F Chloroethane                                                           | 7.07  | 90         | 92384            | 47.08          | ug/l  | 96       |
| Hethylene Chloride                                                         | 11.36 | 184        | 193580           | 44.49          | ug/l  | 8 5      |
| )) Acetone                                                                 | 9.49  | 143        | 17695            | 38.14          | ug/l  | 100      |
| l 🖿 Carbon Disulfide                                                       | 11.27 | 182        | 112236           | 19.17          | ug/l  | 98       |
| 2) Trichlorofluoromethane                                                  | 7.80  | 106        | 214247           | 20.77          | ug/l  | 93       |
| 3 l,1-Dichloroethene                                                       | 9.80  | 150        | 182806           | 30.84          | ug/l  | 8 5      |
| 4 _ l,1-Dichloroethane                                                     | 13.46 | 230        | 246835           | 37.99          | ug/l  | 95       |
| 5) T-butyl alcohol                                                         | 10.22 | 159        | 72963            | 344.96         | ug/l  | 8 3      |
| 5) cis-1,2-Dichloroethene                                                  | 15.10 | 266        | 168742           | 32.78          | ug/l  | 8 7      |
| 7 trans-1,2-Dichloroethene                                                 | 12.22 | 203        | 195280           | 35.32          | ug/l  | 97       |
| 3 ₱  Chloroform                                                            | 15.46 | 274        | 294361           | 34.94          | -     | 96       |
| 9) l,2-Dichloroethane-d4                                                   | 17.29 | 314        | 137575           | 35.25          | _     | 89       |
| 0 l,2-Dichloroethane                                                       | 17.52 | 319        | 161033           | 28.39          | -     | 95       |
| l 📺 ☆l,4~Difluorobenzene                                                   | 18.25 | 335        | 568897           | 50.00          | _     | 100      |
| 2) 2-Butanone                                                              | 14.64 | 256        | 35715            | 47.05          | _     | 94       |
| 3' Methyl t-butyl ether                                                    | 11.86 | 195        | 1847493          | 278.98         | _     | 93       |
| 4 l,1,1-Trichloroethane                                                    | 16.51 | 297        | 284694           | 29.01          | ug/l  | 95       |
| 5) Carbon Tetrachloride                                                    | 17.11 | 310        | 245403           | 26.16          | _     | 99       |
| 6) Vinyl Acetate                                                           | 13.50 | 2 3 1      | 124595           | 30.80          | -     | 94       |
| 7 Bromodichloromethane                                                     | 20.03 | 374        | 273509           | 34.83          | _     | 97       |
| 8 1,2-Dichloropropane                                                      | 19.44 | 361        | 157248           | 46.10          | _     | 94       |
| 9) cis-1,3-Dichloropropene                                                 | 21.31 | 402        | 240440           | 46.13          | _     | 97       |
| O Trichloroethene                                                          | 19.03 | 352        | 236754           | 49.41          | ug/l  | 81       |
| <pre>la Benzene 2) Dibromochloromethane</pre>                              | 17.56 | 320        | 438149           | 46.40          | -     | 100      |
| <ul><li>2) Dibromochloromethane</li><li>3\ 1,1,2-Trichloroethane</li></ul> | 22.86 | 463<br>436 | 252264<br>146232 | 40.56          | -     | 96       |
| 4 trans-1,3-Dichloropropene                                                | 22.50 | 428        | 190923           | 49.83<br>35.86 | _     | 87<br>99 |
| 57 2-Chloroethylvinylether                                                 | 20.76 | 390        | 72724            | 53.13          | ug/l  | 95       |
| 6) Bromoform                                                               | 27.88 | 546        | 162765           | 40.20          | _     | 100      |
| 7 *Chlorobenzene-d5                                                        | 25.51 | 494        | 455598           | 50.00          | _     | 100      |
| 2-Hexanone                                                                 | 22.86 | 436        | 56150            | 41.94          |       | 69       |
| 9) 4-Methyl-2-pentanone                                                    | 20.81 | 391        | 143583           | 42.37          | _     | 7.5      |
| ( Tetrachloroethene                                                        | 23.59 | 452        | 298532           | 47.94          | -     | 93       |
| 1,1,2,2-Tetrachloroethane                                                  | 28.25 | 554        | 152034           | 49.49          | -     | 100      |
| 2) Toluene-d8                                                              | 21.86 | 414        | 533117           | 48.87          |       | 99       |
| ?\ Toluene                                                                 | 22.08 | 419        | 571756           | 48.48          |       | 90       |
| Chlorobenzene                                                              | 25.60 | 496        | 452416           | 51.99          |       | 98       |
|                                                                            |       | *          | <del>-</del>     |                |       | , -      |

|    | Compound           | R.T.  | Scan# | Area    | Conc  | Units | P   |
|----|--------------------|-------|-------|---------|-------|-------|-----|
| 5) | Bromofluorobenzene | 28.48 | 559   | 299810  | 44.22 |       | 93  |
| 6) | Ethylbenzene       | 25.74 | 499   | 715691M | 43.88 | _     | 63  |
| 7) | Styrene            | 27.06 | 528   | 419495  | 47.33 | ug/l  | 96  |
| 8) | m,p-Xylene         | 25.92 | 503   | 1240076 | 87.27 | ug/l  | 93  |
| 9) | o-Xylene           | 26.97 | 526   | 545029  | 39.24 | ug/l  | 94  |
| Э) | Naphthalene        | 37.38 | 754   | 68115   | 36.60 | ug/l  | 100 |

^{*} Compound is ISTD



Data File: >C9596::C2 Quant Output File: ^C9596::D2

Name: VSTD050

Misc:

Id File: IDCS72::SC

Title: Accredited Labs Volatile Identity File

Last Calibration: 980716 14:03

Operator ID: WILLIAM

Quant Time: 980806 10:57 Injected at: 980806 10:17

## QUANT REPORT

 Derator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 980806 13:16

 Itput File: ^C9599::D2
 Injected at: 980806 12:37

 Ita File: >C9599::C2
 Dilution Factor: 1.00000

me: VSTD100

.sc:

) File: IDCS72::SC

.tle: Accredited Labs Volatile Identity File

*st Calibration: 980716 14:03

|            | Compound                  | R.T.  | Scan# | Area    | Conc    | Units | q<br> |
|------------|---------------------------|-------|-------|---------|---------|-------|-------|
| )          | *Bromochloromethane       | 15.92 | 283   | 135377  | 50.00   | ug/l  | 94    |
| 2)         | Acrolein                  | 9.31  | 138   | 220969  | 2842.86 | ug/l  | 91    |
| 3)         | Acrylonitrile             | 11.82 | 193   | 474696  | 1030.48 | ug/1  | 91    |
| <b>)</b>   | Chloromethane             | 5.56  | 56    | 165698  | 89.94   | ug/1  | 89    |
| · )        | Bromomethane              | 6.98  | 8 7   | 286640  | 110.69  | ug/l  | 99    |
| ')         | Vinyl Chloride            | 5.84  | 62    | 155419  | 76.78   | ug/1  | 89    |
| 3)         | Chloroethane              | 7.11  | 90    | 177809  | 98.09   | ug/1  | 99    |
| 3)         | Methylene Chloride        | 11.41 | 184   | 344467  | 85.70   | ug/l  | 8 5   |
| ))         | Acetone                   | 9.53  | 143   | 36064   | 84.15   | ug/l  | 100   |
| . )        | Carbon Disulfide          | 11.31 | 182   | 217597  | 40.24   | ug/l  | 98    |
| ?)         | Trichlorofluoromethane    | 7.84  | 106   | 413858  | 43.44   | ug/l  | 92    |
| 3)         | l,l-Dichloroethene        | 9,85  | 150   | 365048  | 66.66   | ug/1  | 85    |
| +)         | l,l-Dichloroethane        | 13.50 | 230   | 496731  | 82.75   | ug/l  | 97    |
| 5)         | T-butyl alcohol           | 10.31 | 160   | 158959  | 813.49  | ug/l  | 83    |
| · )        | cis-l,2-Dichloroethene    | 15.10 | 265   | 343567  | 72.25   | ug/l  | 8 2   |
| ')         | trans-1,2-Dichloroethene  | 12.27 | 203   | 391047  | 76.55   | ug/l  | 96    |
| 3)         | Chloroform                | 15.51 | 274   | 602044  | 77.35   | ug/l  | 98    |
| 3)         | l,2-Dichloroethane-d4     | 17.34 | 314   | 281733  | 78.13   | ug/l  | 91    |
| ))         | l,2-Dichloroethane        | 17.57 | 319   | 330859  | 63.13   | ug/l  | 96    |
| . )        | ∗l,4-Difluorobenzene      | 18.25 | 334   | 517245  | 50.00   | ug/l  | 100   |
| ;)         | 2-Butanone                | 14.69 | 256   | 79272   | 114.86  | -     | 93    |
| 3)         | Methyl t-butyl ether      | 11.91 | 195   | 3605178 | 598.77  |       | 93    |
| +)         | l,l,l-Trichloroethane     | 16.52 | 296   | 572532  | 64.17   | ug/l  | 94    |
| <b>5</b> ) | Carbon Tetrachloride      | 17.16 | 310   | 495133  | 58.05   | _     | 99    |
| ))         | Vinyl Acetate             | 13.55 | 231   | 150798  | 41.00   |       | 96    |
| ')         | Bromodichloromethane      | 20.03 | 3 7 3 | 572678  | 80.22   |       | 98    |
| 3)         | l,2-Dichloropropane       | 19.48 | 361   | 322399  | 103.96  | -     | 96    |
| 3)         | cis-1,3-Dichloropropene   | 21.31 | 401   | 488226  | 103.02  | _     | 96    |
| 1)         | Trichloroethene           | 19.03 | 351   | 463400  | 106.37  | _     | 80    |
| ( )        | Benzene                   | 17.57 | 319   | 874007  | 101.81  |       | 100   |
| 2)         | Dibromochloromethane      | 24.14 | 463   | 517037  | 91.42   |       | 96    |
| 3)         | l,1,2-Trichloroethane     | 22.91 | 436   | 299251  | 112.15  | _     | 92    |
| +)         | trans-1,3-Dichloropropene | 22.50 | 427   | 398196  | 82.25   |       | 98    |
| 5)         | 2-Chloroethylvinylether   | 20.76 | 389   | 64607   | 51.91   | ***   | 95    |
| 5)         | Bromoform                 | 27.88 | 5 4 5 | 354884  | 96.41   |       | 100   |
| 7)         | *Chlorobenzene-d5         | 25.51 | 493   | 427483  | 50.00   |       | 100   |
| 3)         | 2-Hexanone                | 22.91 | 436   | 124779  | 99.33   | -     | 7 4   |
| 3)         | 4-Methyl-2-pentanone      | 20.81 | 390   | 242268  | 76.20   | _     | 78    |
| ))         | Tetrachloroethene         | 23.64 | 452   | 553006  | 94.65   | -     | 9.5   |
| 1)         | l,1,2,2-Tetrachloroethane | 28.30 | 554   | 317070  | 109.99  | _     | 100   |
| 2)         | Toluene-d8                | 21.90 | 414   | 1043124 | 101.91  | _     | 97    |
| 3)         | Toluene                   | 22.09 | 418   | 1140432 | 103.07  | _     | 30    |
| 4)         | Chlorobenzene             | 25.60 | 495   | 869920  | 106.54  | ug/l  | 98    |

| -   | Compound           | R.T.  | Scan# | Area    | Conc   | Units | q   |
|-----|--------------------|-------|-------|---------|--------|-------|-----|
| 5 \ | Bromofluorobenzene | 28.48 | 558   | 643882  | 101.22 | ug/l  | 91  |
| 6   | Ethylbenzene       | 25.74 | 498   | 1510266 | 98.69  | ug/l  | 94  |
| 7 🔭 | Styrene            | 27.06 | 527   | 834174  | 100.30 | ug/l  | 93  |
| 8)  | m,p-Xylene         | 25.92 | 502   | 1940877 | 145.57 | ug/l  | 59  |
| 9   | o-Xylene           | 26.97 | 5 2 5 | 1087076 | 83.42  | ug/l  | 95  |
| 0 🗯 | Naphthalene        | 37.38 | 753   | 218903  | 125.37 | ug/l  | 100 |

* Jompound is ISTD

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**法外身内核结果** ์ โคร**ปักษณะอุดยอังหล**าก ว่า จังขึ้นใกลสายในอาณากาศซึ่งสาย A Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of

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## QUANT REPORT

 pe ator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 980806 14:03

 ut ut File: ^C9600::D2
 Injected at: 980806 13:24

ata File: >C9600::C2 Dilution Factor: 1.00000

am: VSTD200

i & :

) File: IDCS72::SC

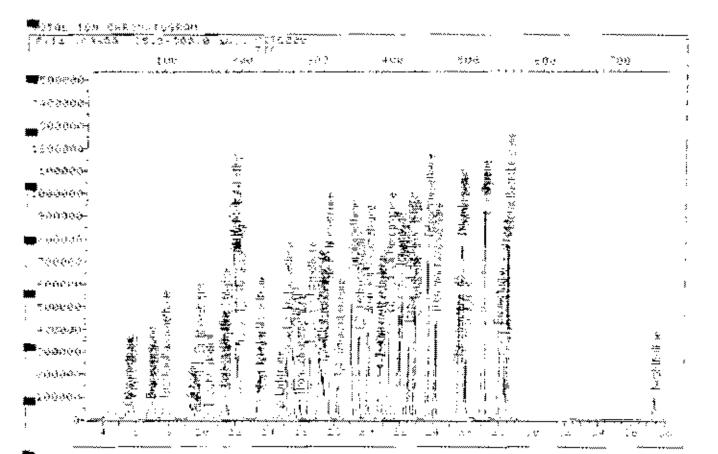
it e: Accredited Labs Volatile Identity File

as Calibration: 980716 14:03

| Compound                                             | R.T.  | Scan#      | Area              | Conc             | Units | q        |
|------------------------------------------------------|-------|------------|-------------------|------------------|-------|----------|
| !) *Bromochloromethane                               | 15.93 | 283        | 132364            | 50.00            | ug/l  | 95       |
| 2) Acrolein                                          | 9.31  | 138        | 363494            | 4782.96          | -     | 9 2      |
| 3 Acrylonitrile                                      | 11.82 | 193        | 851202            | 1889.86          | _     | 91       |
| 5) Chloromethane                                     | 5.52  | 5 5        | 302156            | 167.75           | ug/l  | 89       |
| <ul><li>b) Bromomethane</li></ul>                    | 6.89  | 85         | 528503            | 208.74           | ug/l  | 99       |
| 7) Vinyl Chloride                                    | 5.80  | 61         | 285821            | 144.42           | ug/l  | 89       |
| 3) <b>™</b> Chloroethane                             | 7.08  | 89         | 339731            | 191.69           | ug/l  | 99       |
| 3) Methylene Chloride                                | 11.37 | 183        | 661415            | 168.30           | ug/l  | 83       |
| Ͻ) Acetone                                           | 9.59  | 144        | 59156             | 141.17           | ug/l  | 100      |
| l 🏣 Carbon Disulfide                                 | 11.27 | 181        | 421303            | 79.68            | ug/l  | 99       |
| 2) Trichlorofluoromethane                            | 7.76  | 104        | 783226            | 84.08            | ug/l  | 94       |
| 3) l, l-Dichloroethene                               | 9.81  | 149        | 694167            | 129.65           | ug/l  | 8 5      |
| 4)l,l-Dichloroethane                                 | 13.47 | 229        | 942754            | 160.63           | ug/l  | 97       |
| 5) T-butyl alcohol                                   | 10.41 | 162        | 286844            | 1501.38          | ug/l  | 8 3      |
| <ol> <li>cis-l,2-Dichloroethene</li> </ol>           | 15.11 | 265        | 650375            | 139.88           | ug/l  | 86       |
| 7) trans-1,2-Dichloroethene                          | 12.23 | 202        | 741913            | 148.55           | ug/l  | 96       |
| 3 🗯 Chloroform                                       | 15.52 | 274        | 1137873           | 149.53           |       | 99       |
| 9) l,2-Dichloroethane-d4                             | 17.30 | 313        | 494354            | 140.22           | -     | 89       |
| 0; 1,2-Dichloroethane                                | 17.53 | 318        | 610752            | 119.19           | _     | 95       |
| l ▄ ∗l,4-Difluorobenzene                             | 18.26 | 334        | 518180            | 50.00            |       | 100      |
| 2) 2-Butanone                                        | 14.65 | 255        | 133508            | 193.10           | _     | 94       |
| 3) Methyl t-butyl ether                              | 11.91 | 195        | 5263587           | 872.63           | _     | 81       |
| 4 l, l, l-Trichloroethane                            | 16.52 | 296        | 1092516           | 122.24           |       | 95       |
| 5 Carbon Tetrachloride                               | 17.12 | 309        | 941682            | 110.21           |       | 99       |
| <ol><li>Vinyl Acetate</li></ol>                      | 13.56 | 231        | 153619            | 41.69            | -     | 99       |
| 7) Bromodichloromethane                              | 20.04 | 373        | 1082276           | 151.33           |       | 98       |
| 8 m 1,2-Dichloropropane                              | 19.49 | 361        | 597135            | 192.21           |       | 95       |
| 9) cis-1,3-Dichloropropene                           | 21.32 | 401        | 924266            | 194.67           |       | 97       |
| 0 Trichloroethene                                    | 19.04 | 351        | 863794            | 197.91           | -     | 8 7      |
| Benzene                                              | 17.57 | 319        | 1622084           | 188.61           |       | 100      |
| 2) Dibromochloromethane                              | 24.15 | 463        | 964088            | 170.16           | -     | 97       |
| 3) 1,1,2-Trichloroethane                             | 22.87 | 435        | 551949            | 206.48           | -     | 88       |
| trans-1,3-Dichloropropene  5 2-Chloroethylvinylether | 22.51 |            | 760899            | 156.88           |       | 98       |
| ·                                                    | 20.77 | 389<br>544 | 305190            | 244.78<br>185.93 |       | 96       |
| •                                                    |       | 544        | 685641            |                  |       | 100      |
| 7 *Chlorobenzene-d5                                  | 25.52 | 493        | 486281            | 50.00<br>159.51  |       | 100      |
| 8 m. 2-Hexanone<br>9) 4-Methyl-2-pentanone           |       | 436        | 227925            |                  | _     | 76<br>73 |
| 9) 4-Methyl-2-pentanone<br>O Tetrachloroethene       | 20.82 | 390<br>452 | 585317<br>1036673 | 161.84<br>155.97 |       | 73<br>97 |
| l_ l,l,2,2-Tetrachloroethane                         | 28.28 | 552        | 579673            | 176.78           |       |          |
|                                                      | 21.91 | 414        | 1842675           | 158.26           |       | 100      |
| 2) Toluene-d8<br>3) Toluene                          | 22.09 | 414        | 1950615           | 156.26           |       | 95<br>60 |
| 4 Chlorobenzene                                      | 25.61 | 495        | 1691961           | 182.15           |       | 69<br>93 |
| the childropetizetie                                 | 20.01 | 777        | 1091901           | 102,13           | ug/1  | 73       |

|          | Compound                | R.T.           | Scan#          | Area               | Conc            | Units | q        |
|----------|-------------------------|----------------|----------------|--------------------|-----------------|-------|----------|
| 5)       | Bromofluorobenzene      | 28.46          | 556<br>498     | 1210957            | 167.35          | _     | 88<br>58 |
| 6)<br>7) | Ethylbenzene<br>Styrene | 27.05          | 525            | 1601860            | 169.31          | ug/l  | 9 2      |
| 8)<br>9) | m,p-Xylene<br>o-Xylene  | 26.00<br>27.00 | 5 0 2<br>5 2 4 | 523707M<br>1865972 | 34.53<br>125.88 | ug/l  | 83<br>82 |
| 0)       | Naphthalene             | 37.41          | 752            | 490481             | 246.95          | ug/l  | 100      |

^{*} Compound is ISTD



Data File: >€9600::02

Quant Output File: "39600::02

Mame: V\$19200

Misc)

Id File: 1DC\$77::80

Tirly: Accredited Labs Volatile Identity File

Last Calitration: 980716 14:03

Cperator ID: William

Quant Time: 980806 (4:0% Injected at: 980806 13:24 ontractor: Accredited Labs

Time: 09:03

ontract No: CACS73 Laboratory ID: /E0377

nstrument ID: HP5790BC Initial Calibration Date: 08/06/98

Minimum RF for SPCC is .30 Maximum % Diff for CCC is 25.0%

| Compound                  | RF      | RF      | 2Diff  | 333 | SPCC |               |
|---------------------------|---------|---------|--------|-----|------|---------------|
| orolein                   | .07545  | 04429   | 41 29  |     |      | (Conc=500.00) |
| crulonitrile              | .16181  | .16022  | ୍ବଞ    |     |      | (Canc=500.00) |
| reon-113                  | -       |         |        |     |      | /Canc=50.001  |
| hloromethane              | . 62985 | .50815  | 19 32  |     | # ¥  |               |
|                           |         | 1.00997 |        |     |      |               |
| inul Chloride             | 63238   | 63478   | . 38   | •   |      |               |
| hloroethane               | .64611  | 64137   | .73    |     |      |               |
| lethulene Chloride        | 1.67395 | 1 34180 | 19.84  |     |      |               |
| cetone                    | . 13187 | .12447  | 5.61   |     |      |               |
| arbon Disulfide           | .77798  | 2.43403 | 212.87 |     |      |               |
| richlorofluoromethane     | 1.50799 | 2.18844 | 45.12  |     |      |               |
| .1-Dichloroethene         | 1.30529 | 1.54108 | 18,06  | *   |      |               |
| .l-Dichloroethane         | 1.76632 | 2.09066 | 18.36  |     | **   |               |
| -butul alcohol            | .05186  | .05762  | 11.11  |     |      | (Conc=500.00) |
| is-1,2-Dichloroethene     | 1.21011 | 1.28280 | 6.01   |     |      |               |
| rans-1,2-Dichloroethene   | 1.39360 | 1.67118 | 19.92  |     |      |               |
| hloroform                 | 2.12651 | 2.44566 | 15.01  | *   |      |               |
| 2-Dichloroethane-d4       | . 97323 | .98581  | 1.29   |     |      |               |
| ,2-Dichloroethane         | 1.15482 | 1.13250 | 1.93   |     |      |               |
| :-Butanone                | .06784  | .05756  | 15.16  |     |      |               |
| lethyl t-butyl ether      | .32222  | .54172  | 68.12  |     |      | (Conc=500.00) |
| l.l-Trichloroethane       | .52528  | .54388  | 3.54   |     |      |               |
| Jarbon Tetrachloride      | .44345  | .49339  | 11.26  |     |      |               |
| Jinul Acetate             | . 15763 | .30452  | 93.18  |     |      |               |
| 3romodichloromethane      |         | .51770  |        |     |      |               |
| 2-Dichloropropane         | . 29216 | . 29765 |        | *   |      |               |
| :ts-1,3-Dichloropropene   | .41022  | .40677  | . 84   |     |      | (Conc=53.00)  |
| frichloroethene           | .42956  | .47714  | 11.08  |     |      |               |
| Benzene                   | .80786  |         |        |     |      |               |
| Dibromochloromethane      | . 45095 |         | 2.29   |     |      |               |
| 1.1.2-Trichloroethane     | . 26862 | . 24875 | 7 39   |     |      |               |
| trans-1.3-Dichloropropene | .36913  | . 34971 | 5,40   |     |      | (Conc=47,00)  |

RF - Response Factor from daily standard file at 50.00 ug/l

Form VII Page 1 of 2

^{...} RF - Average Response Factor from Initial Calibration Form VI

ADiff - A Difference from original average or curve

ECC - Calibration Check Compounds (**) SPCC - System Performance Check Compounds (**)

.ase No: Calibration Date: 09/22/98 .oractor: Accredited Labs Time: 09:03 .o: 'ract No: CACS73 Laboratory ID: →C0377 ----nstrument ID: HP5790BC Initial Calibration Date: 08/06/98 Minimum RF for SPCC is .30 Maximum % Diff for CCC is 25.0% Compound RF RF WDiff CCC SPCC .11693 .11022 5.73 -Chloroethylvinylether iri oform . 29762 . 29327 1.46 -l__canone --Methyl-2-pentanone .12529 .10731 14.36 .30475 .28246 7.31 .63485 .75304 18.62 etrach loroethene .1 :.2-Tetrachloroethane .33297 .32075 3.67 o <del>lac</del>ne-d8 1.15345 1.30907 13.49 1.24521 1.41716 13.81 * oluene hl obenzene .98337 1.09921 11.78 r 🖚 fluorobenzene .67798 .76138 12.30 1.56323 1.74965 11.93 * thulbenzene .90847 1.04304 14.81 iti ine ylene Xylene 1.10383 1.47785 33.88 (Conc=100.00) 1.20554 1.36026 12.83 laphthalene .18778 -. Response Factor from daily standard file at 50.00 ug/l Average Response Factor from Initial Calibration Form VI iD f = % Difference from original average or curve. - Calibration Check Compounds (*) SPEC - System Performance Eneck Compounds (**)

Form VII Page 2 of 2

V.64

## QUANT REPORT

perator ID: WILLIAM Quant Rev: 6 Quant Time: 980922 09:34 utput File: ^C0377::QT Injected at: 980922 09:03 Dilution Factor: 1.00000 ata File: >C0377::C2

ame: VSTD050 isc:

D File: IDCS73::SC

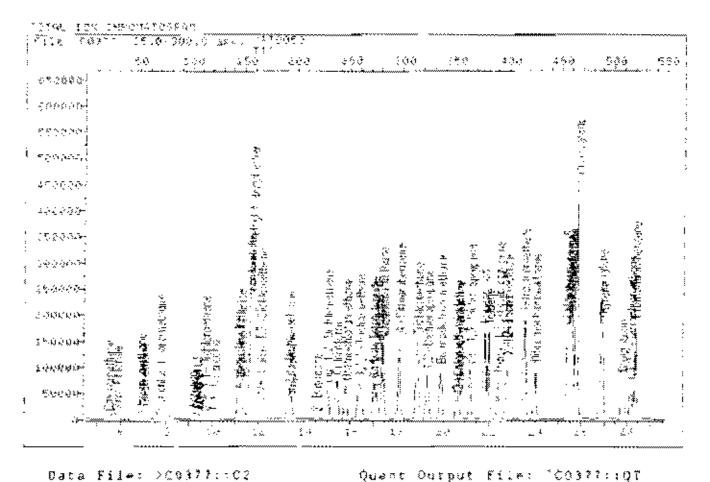
itle: Accredited Labs Volatile Identity File

ast Calibration: 980806 14:39

|    | Compound                                | R.T.  | Scan#      | Area             | Conc           | Units | q        |
|----|-----------------------------------------|-------|------------|------------------|----------------|-------|----------|
| 1) | *Bromochloromethane                     | 15.81 | 248        | 111400           | 50.00          | ug/l  | 96       |
| 2) | Acrolein                                | 9.14  | 102        | 49344            | 293.54         | _     | 88       |
| 3) | Acrylonitrile                           | 11.65 | 157        | 178486           | 495.08         | ***   | 8 7      |
| 4) | Freon-113                               | 9.33  | 106        | 49409            | 34.36          | _     | 89       |
| 5) | Chloromethane                           | 5.49  | 2 2        | 56608            | 40.34          | _     | 90       |
| 6) | Bromomethane                            | 6.91  | 53         | 112511           |                | _     | 97       |
| 7) | Vinyl Chloride                          | 5.86  | 30         | 70715            |                |       | 92       |
| 8) | Chloroethane                            | 7.04  | 56         | 71449            |                |       | 99       |
| 9) | Methylene Chloride                      | 11.24 | 148        | 149477           |                | ug/l  | 8 1      |
| 0) | Acetone                                 | 9.37  | 107        | 13866            | 47.19          | ug/l  | 100      |
| 1) | Carbon Disulfide                        | 11.15 | 146        | 271151           | 156.43         | ug/l  | 99       |
| 2) | Trichlorofluoromethane                  | 7.73  | 7 1        | 243792           | 72.56          | ug/l  | 92       |
| 3) | l,l-Dichloroethene                      | 9.69  | 114        | 171676M          | 59.03          | ug/l  | 76       |
| 4) | l,l-Dichloroethane                      | 13.34 | 194        | 232899           | 59.18          |       | 96       |
| 5) | T-butyl alcohol                         | 10.10 | 123        | 64187            | 555.54         |       | 83       |
| 5) | cis-l,2-Dichloroethene                  | 14.99 | 230        | 142904           | 53.00          |       | 80       |
| 7) | trans-1,2-Dichloroethene                | 12.11 | 167        | 186169           | 59.96          |       | 95       |
| 3) | Chloroform                              | 15.40 | 239        | 272447           | 57.50          |       | 98       |
| 3) | l,2-Dichloroethane-d4                   | 17.18 | 278        | 109819           | 50.65          |       | 85       |
| )) | l,2-Dichloroethane                      | 17.41 | 283        | 126161           | 49.03          |       | 95       |
| 1) | ★1,4-Difluorobenzene                    | 18.14 | 299        | 474684           | 50.00          |       | 100      |
| 2) | 2-Butanone                              | 14.53 | 220        | 27321            | 42.42          |       | 97       |
| 3) | Methyl t-butyl ether                    | 11.75 | 159        | 2571460          | 840.60         | _     | 94       |
| 4) | l, l, l-Trichloroethane                 | 16.40 | 261        | 258172           | 51.77          | _     | 95       |
| 5) | Carbon Tetrachloride                    | 16.99 | 274        | 234203           | 55.63          | _     | 99       |
| 5) | Vinyl Acetate                           | 13.43 | 196        | 144550           | 96.59          | _     | 95       |
| 7) | Bromodichloromethane                    | 19.92 | 338        | 245744           | 51.23          |       | 97       |
| 3) | 1,2-Dichloropropane                     | 19.32 | 325        | 141291<br>204673 | 50.94          |       | 95       |
| )) | cis-1,3-Dichloropropene Trichloroethene | 21.19 | 366<br>316 | 226491           | 52.56<br>55.54 | _     | 96<br>79 |
| 1) | Benzene                                 | 17.45 | 284        | 434040           | 56.59          | -     | 100      |
| 2) | Dibromochloromethane                    | 23.98 | 427        | 209165           |                |       | 96       |
| 3) | 1,1,2-Trichloroethane                   | 22.75 |            | 118080           |                | _     | 89       |
| 4) | trans-1,3-Dichloropropene               | 22.38 | 392        | 155817           | 44.46          | _     | 99       |
| 5) | 2-Chloroethylvinylether                 | 20.65 | 354        | 52321            | 47.13          | -     | 97       |
| 5) | Bromoform                               | 27.77 | 510        | 139212           | 49.27          | _     | 100      |
| 7) | *Chlorobenzene-d5                       | 25.40 | 458        | 380806           | 50.00          |       | 100      |
| 3) | 2-Hexanone                              | 22.75 | 400        | 40863            | 42.82          |       | 63       |
| 7) | 4-Methyl-2-pentanone                    | 20.69 | 355        | 107563           | 46.34          |       | 77       |
| ĵ) | Tetrachloroethene                       | 23.48 | 416        | 286764           | 59.31          |       | 92       |
| l) | 1,1,2,2-Tetrachloroethane               | 28.13 | 518        | 122144           | 48.17          |       | 100      |
| 2) | Toluene-d8                              | 21.74 | 378        | 498503           | 56.75          |       | 99       |
| 3) | Toluene                                 | 21.97 | 383        | 539662           | 56.90          |       | 92       |
|    |                                         |       |            |                  |                | -     |          |

|          | Compound           | R.T.  | Scan# | Area            | Conc   | Units | q   |
|----------|--------------------|-------|-------|-----------------|--------|-------|-----|
|          |                    |       |       |                 |        |       |     |
| 4        | Chlorobenzene      | 25.49 | 460   | 418587          | 55.89  | ug/l  | 99  |
| 5        | Bromofluorobenzene | 28.32 | 522   | 289939          | 56.15  | ug/l  | 8.5 |
| 5)       | Ethylbenzene       | 25.58 | 462   | 666277 <b>M</b> | 55.96  | ug/l  | 5 7 |
| 7 `      | Styrene            | 26.95 | 492   | 397196          | 57.41  | ug/l  | 95  |
| 3        | m,p-Xylene         | 25.76 | 466   | 1125545         | 133.88 | ug/l  | 88  |
| <b>9</b> | o-Xylene           | 26.86 | 490   | 517997          | 56.42  | ug/l  | 94  |

* Compound is ISTD



Data File: >09377::02

Name: VSTD030

Misc:

Id File: IDCS73:/SC

Title: Accredited Labs Volatile Identity File

Last Calibration: 980806 14:39

Operator ID: WILLIAM

Quant Time: 989982 09:34 Injected at: 480922 04:0.

Case No: Calibration Date: 09/23/98

Commractor: Accredited Labs Time: 08:08

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Contract No: CAC573 Laboratory ID: >€0395

Instrument ID: HP5790BC Initial Calibration Date: 08/06/98

ument ID: HP5790BC Initial Calibration Date: 08/06/98

■ Minimum RF for SPCC is .30 Maximum % Diff for CCC is 25.0%

| Compound                 |                | RF         | XDiff  | 333 | SPCC       |               |
|--------------------------|----------------|------------|--------|-----|------------|---------------|
|                          | .07545         | .03932     | 47.89  |     |            | (Conc=500.00) |
|                          |                |            |        |     |            | (Conc=500.00) |
| re n-113                 | -              | .02866     | -      |     |            | (Canc=50,00)  |
| h foromethane            | . 62985        | .52597     | 16.49  |     | **         |               |
| romomethane              | 1.02765        | 1.06690    | 3.82   |     |            |               |
| 'ir 1 Chloride           | .63238         | . 64533    | 2.05   | *   |            |               |
| h moethane               |                | . 68586    |        |     |            |               |
| lethylene Ehloride       | 1.67395        | 1.33144    | 20.46  |     |            |               |
| ce ne                    | .13187         | .09667     | 26.69  |     |            |               |
| ar <u>u</u> n Disulfide  | .77798         | 2.42744    | 212.02 |     |            |               |
| richlorofluoromethane    | 1.50799        |            |        |     |            |               |
| .1-Nichloroethene        | 1.30529        |            |        | #   |            |               |
| ,1 ichloroethane         | 1.76632        | 2.12134    | 20.10  |     | # <b>*</b> |               |
| -batyl alcohol           | .05186         | .05420     | 4.51   |     |            | (Conc=500.00) |
| is-1,2-DichToroethene    | 1.21011        | 1.31676    | 8.81   |     |            |               |
| ra -1,2-Dichloroethene   | 1.39360        | 1.70315    | 22.21  |     |            |               |
| h l <b>ago form</b>      | 2.12651        | 2.52736    | 18.85  | *   |            |               |
| .2-Dichloroethane-d4     | .97323         |            |        |     |            |               |
| .2 Tichloroethane        |                | 1.11757    |        |     |            |               |
| -Banone                  |                | .04899     | 27.79  |     |            |               |
| ethyl t-butul ether      | .32222         |            | 53.53  |     |            | [Canc=500.00] |
| .1.1-Trichloroethane     | .52528         |            | 3,35   |     |            |               |
| ar_n Tetrachloride       | . 44345        |            | 13.85  |     |            |               |
| in <b>vi</b> Acetate     | . 15763        |            | 76.74  |     |            |               |
| romodichloromethane      | .50523         |            | . 87   |     |            |               |
| .2 ichloropropane        | . 29216        |            |        | *   |            |               |
| ism.3-Dichloropropene    | .41022         |            |        |     |            | (Conc=53 00)  |
| richloroethene           |                | . 47507    |        |     |            |               |
| en ine                   | .8078 <b>6</b> |            |        |     |            |               |
| it moch loromethane      |                | .41579     |        |     |            |               |
| ,1,2-Trichloroethane     |                | . 23298    |        |     |            | G (3.08       |
| rans-1,3-Dichloropropene | .36913         | .32670<br> | 11.49  |     |            | (Conc=47.00)  |

⁻ Response Factor from daily standard file at 50.00 ug/l

⁻— - Average Response Factor from Initial Calibration Form VI

Diff - % Difference from original average or curve

_______ - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Form VII Page 1 of 2

### unic imi im lifeç en life.* Mái lomasinfo

| ase hai                                      |                    | Calibration Back+ 00:00006         |                          |             |            |  |  |  |
|----------------------------------------------|--------------------|------------------------------------|--------------------------|-------------|------------|--|--|--|
| .ontractor: Accrequited lass                 | , , , , , ,        | Frame (6:0)                        |                          |             |            |  |  |  |
| .britract Not ERESTS                         |                    | Laboration (D): 10000m             |                          |             |            |  |  |  |
| rstrument [Da #5796EC                        |                    | Errtiel Lavibracion Jates Odribise |                          |             |            |  |  |  |
| Minimum SE for \$500 %                       | 5-)                | ط∀ ان                              | nga di Qir ^{ay} | far EEC no  | 15 V.      |  |  |  |
| Compound                                     | :1                 | ij                                 | (; ·* + - \)             | J. 5400     |            |  |  |  |
| -in prosthylash, somer                       | !!:~!              |                                    |                          | · · · · · · |            |  |  |  |
| reteleim<br>18×5000e                         |                    | . 65 ⁰⁶<br>[866]        |                          | **          |            |  |  |  |
| -Methyl-lapentacqre                          | 3,475              | DiW                                | j# (3                    |             |            |  |  |  |
| etrachiscophena<br>,1.2.2-letrachiscoppinace | 337E:              | 110i¢<br>Sièis                     |                          | ++          |            |  |  |  |
| ០ (បានសុខការដី<br>ស ³ សុខភាគ      | 1.15595<br>1.38521 |                                    | 1.1 66<br>15 66 (        | ŧ           |            |  |  |  |
| alarobeczese                                 | 35337              | 1 247 []                           | ij W                     | **          |            |  |  |  |
| nomof luorobenzene<br>eta benzene            |                    | د:(۳۲<br>ادالهٔ ۱                  | .9 40<br>{r  4           |             |            |  |  |  |
| tyrene<br>26-30 leae                         |                    | : \$4355<br>1 43347                | ;# */<br>27 //           | 4 ( m :     | ¥67177.90/ |  |  |  |
| - Avlene                                     | ;                  |                                    |                          | -           |            |  |  |  |

(6778) - - - - -

aphthalere

Park All Page 1 of 1

A - Response Pactor transmanu standard title at 190 00 cg//

^{🧚 -} Y. Aberage Recommen Pagnon indo-instral Edinoretron Port, Ai

Sieff on A Bedigeence from ofth has appraint to lived

^{82 -} Calibration Check Compositor + CACC - States for fernanze dimens Compagnis, (**

# QUANT REPORT

e ator ID: WILLIAM Quant Rev: 6 Quant Time: 980923 08:39 ı**t**ut File: ^C0395::QT Injected at: 980923 08:08 ita File: >C0395::C2

Dilution Factor: 1.00000

ar : VSTD050

) File: IDCS73::SC

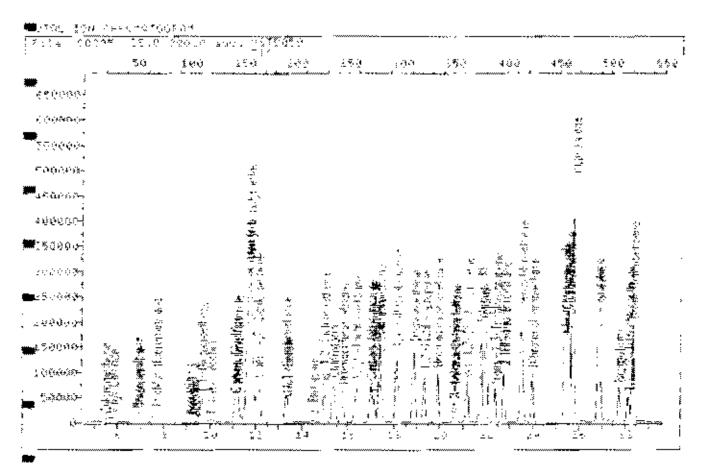
itle: Accredited Labs Volatile Identity File

ast Calibration: 980806 14:39

| Compound                        | R.T.  | Scan# | Area    | Conc   | Units | q   |
|---------------------------------|-------|-------|---------|--------|-------|-----|
| ) *Bromochloromethane           | 15.77 | 247   | 109960  | 50.00  | 119/1 | 97  |
| 2' Acrolein                     | 9.10  | 101   | 43231   | 260.54 | -     | 89  |
| 3 Acrylonitrile                 | 11.66 | 157   | 161767  | 454.58 | •     | 8 7 |
| Freon-113                       | 9.24  | 104   | 3151    |        | ug/l  | 80  |
| 5) Chloromethane                | 5.45  | 2 1   | 57836   | 41.75  | -     | 88  |
| o Bromomethane                  | 6.87  | 5 2   | 117316  | 51.91  | -     | 99  |
| / P Vinyl Chloride              | 5.82  | 29    | 70960   | 51.02  | -     | 90  |
| 3) Chloroethane                 | 6.96  | 54    | 75417   | 53.08  |       | 98  |
| Methylene Chloride              | 11.20 | 147   | 146405  | 39.77  | •     | 81  |
| ) Acetone                       | 9.33  | 106   | 10630   | 36.65  |       | 100 |
| l) Carbon Disulfide             | 11.11 | 145   | 266921  | 156.01 | _     | 98  |
| 2 Trichlorofluoromethane        | 7.69  | 7 0   | 246810  | 74.42  | •     | 91  |
| <pre>3 1,1-Dichloroethene</pre> | 9.65  | 113   | 173146M | 60.32  | -     | 76  |
| 4) l,l-Dichloroethane           | 13.30 | 193   | 233262  | 60.05  | ug/l  | 95  |
|                                 | 10.06 | 122   | 59593   | 522.54 | ug/l  | 8.2 |
| 6 cis-1,2-Dichloroethene        | 14.95 | 229   | 144791  | 54.41  | ug/l  | 7 7 |
| 7 🗭 trans-1,2-Dichloroethene    | 12.07 | 166   | 187278  | 61.11  | ug/l  | 96  |
| 3) Chloroform                   | 15.36 | 238   | 277909  | 59.43  | ug/l  | 97  |
| 9 l,2-Dichloroethane-d4         | 17.14 | 277   | 107695  | 50.32  | ug/l  | 85  |
| 0 1,2-Dichloroethane            | 17.36 | 282   | 122888  | 48.39  | ug/l  | 94  |
| l) ☆l,4-Difluorobenzene         | 18.09 | 298   | 488044  | 50.00  | ug/l  | 100 |
| 2` 2~Butanone                   | 14.49 | 219   | 23911   | 36.11  | ug/l  | 94  |
| 3 Methyl t-butyl ether          | 11.70 | 158   | 2414336 | 767.63 | ug/l  | 93  |
| 4) 1,1,1-Trichloroethane        | 16.36 | 260   | 264954  | 51.68  | ug/l  | 94  |
| 5) Carbon Tetrachloride         | 17.00 | 274   | 246405  | 56.93  | ug/l  | 99  |
| 6 Vinyl Acetate                 | 13.39 | 195   | 135970  | 88.37  |       | 96  |
|                                 | 19.88 | 3 3 7 | 248709  | 50.43  | ug/l  | 98  |
| <u>.</u>                        | 19.33 | 3 2 5 | 141135  | 49.49  | -     | 94  |
| 9 cis-1,3-Dichloropropene       | 21.15 | 365   | 200916  | 50.18  |       | 97  |
| Trichloroethene                 | 18.87 | 315   | 231856M | 55.30  |       |     |
| l) Benzene                      | 17.41 | 283   | 442845  | 56.16  | -     | 100 |
| 2 Dibromochloromethane          | 23.98 | 427   | 202924  | 46.10  |       | 96  |
| 1,1,2-Trichloroethane           | 22.75 | 400   | 113704  | 43.37  |       | 93  |
| 4) trans-1,3-Dichloropropene    | 22.39 | 392   | 149879  | 41.60  | _     | 99  |
| 5) 2-Chloroethylvinylether      | 20.61 | 353   | 48206   | 42.24  |       | 94  |
| 6 Bromoform                     | 27.73 | 509   | 131161  | 45.15  |       | 100 |
| ≠Chlorobenzene-d5               | 25.35 | 457   | 380714  | 50.00  |       | 100 |
| 8) 2-Hexanone                   | 22.75 | 400   | 37506   | 39.31  |       | 68  |
| 9 4-Methyl-2-pentanone          | 20.65 | 354   | 99443   | 42.85  |       | 67  |
| Tetrachloroethene               | 23.48 | 416   | 293973  | 60.81  |       | 95  |
| 1) 1,1,2,2-Tetrachloroethane    | 28.14 | 518   | 124975M | 49.29  |       | 100 |
| 7 Toluene-d8                    | 21.75 | 378   | 499996  | 56.93  |       | 99  |
| Toluene                         | 21.93 | 382   | 547917  | 57.79  | ug/1  | 90  |

|    | Compound           | R.T.  | Scan# | Area            | Conc   | Units | q<br> |
|----|--------------------|-------|-------|-----------------|--------|-------|-------|
| 4) | Chlorobenzene      | 25.44 | 459   | 417692          | 55.78  | ug/l  | 98    |
| 5) | Bromofluorobenzene | 28.32 | 522   | 286358          | 55.47  | ug/l  | 89    |
| 5) | Ethylbenzene       | 25.58 | 462   | 691229 <b>M</b> | 58.07  | ug/l  | 61    |
| 7) | Styrene            | 26.91 | 491   | 397295          | 57.43  | ug/l  | 92    |
| 3) | m,p-Xylene         | 25.76 | 466   | 1090110         | 129.70 | ug/l  | 91    |
| €) | o-Xylene           | 26.81 | 489   | 520918          | 56.75  | ug/l  | 94    |

^{*} Compound is ISTD



Daga (1135: 200395::02

Quant Optpus File: 100395::30T

#ame: ₹3°005¢

# Misa:

Id File: 100373::20

Title: Accredited tabs Volatiis Identity File

Last Calibration: 980806 14:39

Operator JD: WILLIAM

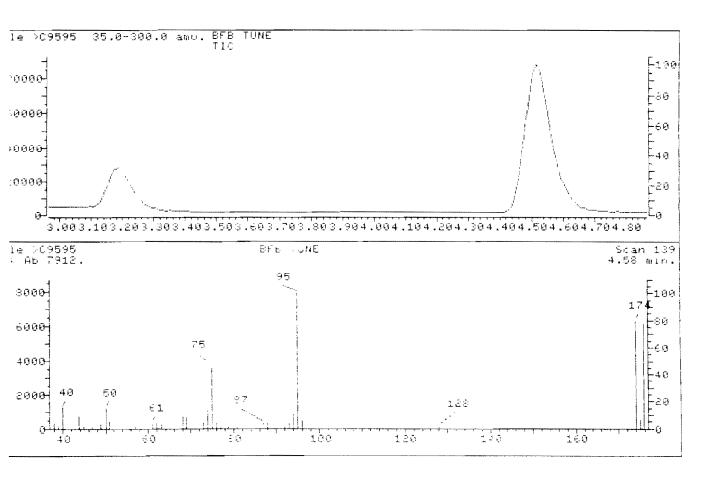
Quant Time: \$80923 08:39 Injected at: 980923 08:08

#### GC/MS PERFORMANCE STANDARD

## Bromofluorobenzene (BFB)

|     |                                    | Abundance |        |        |
|-----|------------------------------------|-----------|--------|--------|
|     | Ion Abundance                      | Base      |        |        |
| m/z | Criteria                           | Peak      | Peak   | Status |
|     |                                    |           |        |        |
| 50  | 15-40% of mass 95                  | 15.03     | 15.03  | Ok     |
| 7 5 | 30-60% of mass 95                  | 44.55     | 44.55  | Ok     |
| 95  | Base peak, 100% relative abundance | 100.00    | 100.00 | Ok     |
| 96  | 5-9% of mass 95                    | 6.17      | 6.17   | Οk     |
| 173 | Less than 2% of mass 174           | 0.00      | 0.00   | Ok     |
| 174 | Greater than 50% of mass 95        | 79.51     | 79.51  | Ok     |
| 175 | 5-9% of mass 174                   | 5.67      | 7.14   | Ok     |
| 176 | 95-101% of mass 174                | 77.81     | 97.85  | Ok     |
| 177 | 5-9% of mass 176                   | 5.69      | 7.31   | Ok     |

Injection Date: 08/06/98
Injection Time: 09:47
 Data File: >C9595
 Scan: 139



ile: >C9595 Scan #: 139 Retn. time: 4.58

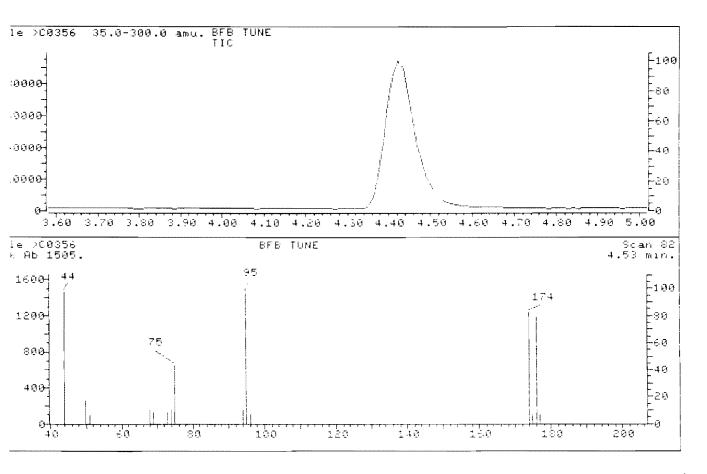
| Z       | Int.    | m/z   | Int.    | m/z   | Int.    | m/z   | Int.   | m/z    | Int.    |
|---------|---------|-------|---------|-------|---------|-------|--------|--------|---------|
|         |         |       |         |       |         |       |        |        |         |
| 3 7 0 5 | 311.00  | 50.00 | 1189.00 | 69.00 | 674.00  | 79.90 | 57.00  | 95.00  | 7912.00 |
| 3€_00   | 311.00  | 51.00 | 396.00  | 73.00 | 378.00  | 80.80 | 124.00 | 96.00  | 488.00  |
| 39.00   | 136.00  | 56.90 | 173.00  | 74.00 | 1054.00 | 86.90 | 268.00 | 127.95 | 88.00   |
| 39.90   | 1216.00 | 61.00 | 297.00  | 75.00 | 3525.00 | 87.90 | 311.00 | 173.95 | 6291.00 |
| 41 90   | 752.00  | 62.00 | 273.00  | 76.00 | 301.00  | 92.00 | 219.00 | 174.95 | 449.00  |
| 4 🚝 9 0 | 93.00   | 63.00 | 222.00  | 76.90 | 84.00   | 93.00 | 274.00 | 175.85 | 6156.00 |
| 46.90   | 110.00  | 68.00 | 709.00  | 78.80 | 147.00  | 94.00 | 856.00 | 176.85 | 450.00  |
| 41 90   | 233.00  |       |         |       |         |       |        |        |         |

## GC/MS PERFORMANCE STANDARD

#### Bromofluorobenzene (BFB)

|     |                                    | % Relative Abundance |             |        |  |  |
|-----|------------------------------------|----------------------|-------------|--------|--|--|
|     | Ion Abundance                      | Base                 | Appropriate |        |  |  |
| m/z | Criteria                           | Peak                 | Peak        | Status |  |  |
|     | 15 / 09 (                          | 17 20                |             |        |  |  |
| 5 0 | 15-40% of mass 95                  | 17.28                | 17.28       | Ok     |  |  |
| 7 5 | 30-60% of mass 95                  | 42.92                | 42.92       | Ok     |  |  |
| 95  | Base peak, 100% relative abundance | 100.00               | 100.00      | Ok     |  |  |
| 96  | 5-9% of mass 95                    | 7.24                 | 7.24        | Οk     |  |  |
| 173 | Less than 2% of mass 174           | 0.00                 | 0.00        | Ok     |  |  |
| 174 | Greater than 50% of mass 95        | 82.33                | 82.33       | Ok     |  |  |
| 175 | 5-9% of mass 174                   | 6.58                 | 7.99        | Ok     |  |  |
| 176 | 95-101% of mass 174                | 78.74                | 95.64       | Ok     |  |  |
| 177 | 5-9% of mass 176                   | 6.51                 | 8.27        | Ok     |  |  |

Injection Date: 09/21/98
Injection Time: 08:35
 Data File: >C0356
 Scan: 82



ile: >C0356 Scan #: 82 Retn. time: 4.53

| z z    | Int.    | m/z   | Int.   | m/z   | Int.    | m/z    | Int.   | m/z    | Int.    |
|--------|---------|-------|--------|-------|---------|--------|--------|--------|---------|
|        |         |       |        |       |         |        |        |        |         |
| 30.90  | 198.00  | 67.90 | 145.00 | 75.00 | 646.00  | 96.00  | 109.00 | 175.85 | 1185.00 |
|        | 1465.00 |       |        |       |         |        |        |        |         |
| 4 🕶 90 | 260.00  | 72.90 | 122.00 | 94.90 | 1505.00 | 174.85 | 99.00  | 206.90 | 89.00   |
| 51.00  | 90.00   | 73.90 | 157.00 |       |         |        |        |        |         |

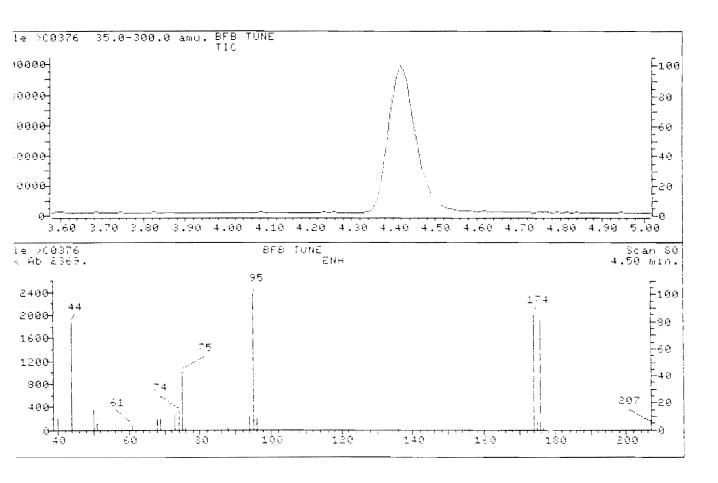
V-76

#### GC/MS PERFORMANCE STANDARD

### Bromofluorobenzene (BFB)

|     |                                    | % Relative Abundance |             |        |  |  |
|-----|------------------------------------|----------------------|-------------|--------|--|--|
|     | Ion Abundance                      | Base                 | Appropriate | t e    |  |  |
| m/z | Criteria                           | Peak                 | Peak        | Status |  |  |
| 50  | 15-40% of mass 95                  | 15.04                | 15.04       | Ok     |  |  |
| 7 5 | 30-60% of mass 95                  | 42.65                | 42.65       | Ok     |  |  |
| 95  | Base peak, 100% relative abundance | 100.00               | 100.00      | Ok     |  |  |
| 96  | 5-9% of mass 95                    | 8.37                 | 8.37        | Ok     |  |  |
| 173 | Less than 2% of mass 174           | 0.00                 | 0.00        | Ok     |  |  |
| 174 | Greater than 50% of mass 95        | 84.64                | 84.64       | Ok     |  |  |
| 175 | 5-9% of mass 174                   | 5.44                 | 6.42        | Ok     |  |  |
| 176 | 95-101% of mass 174                | 82.03                | 96.92       | Ok     |  |  |
| 177 | 5-9% of mass 176                   | 5.96                 | 7.27        | Ok     |  |  |

Scan: 80



C₩76 BFB TUNE 80 ENH

ile: >C0376 Scan #: 80 Retn. time: 4.50

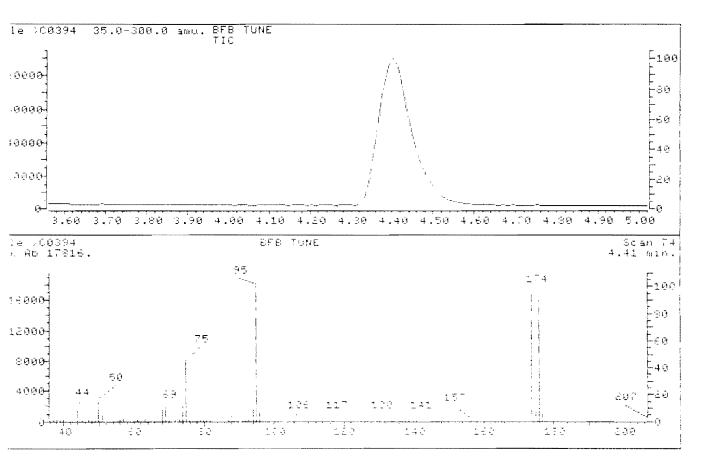
| / z   | Int.    | m/z   | Int.   | m/z   | Int.   | m/z    | Int.    | m/z    | Int.   |
|-------|---------|-------|--------|-------|--------|--------|---------|--------|--------|
| 30.00 | 37.20   | 60.00 | 67.40  | 74 00 | 224 90 |        | 220 00  | 174 05 | 120 00 |
|       | 206.60  |       |        |       | _      |        | -       |        |        |
|       | 1871.40 |       |        |       |        |        |         |        |        |
|       | 356.20  | 72.90 | 264.60 | 87.90 | 70.60  | 173.85 | 2005.20 | 206.90 | 94.20  |
| 5 .90 | 109.40  |       |        |       |        |        |         |        |        |

#### GC/MS PERFORMANCE STANDARD

#### Bromofluorobenzene (BFB)

|     |                                    | % Relative Abundance |             |        |  |  |
|-----|------------------------------------|----------------------|-------------|--------|--|--|
|     | Ion Abundance                      | Base                 | Appropriate |        |  |  |
| m/z | Criteria                           | Peak                 | Peak        | Status |  |  |
| 50  | 15-40% of mass 95                  | 15.09                | 15.09       | 0k     |  |  |
| 7.5 | 30-60% of mass 95                  | 43.95                | 43.95       | Ok     |  |  |
| 95  | Base peak, 100% relative abundance | 100.00               | 100.00      | Ok     |  |  |
| 96  | 5-9% of mass 95                    | 7.08                 | 7.08        | Ok     |  |  |
| 173 | Less than 2% of mass 174           | 0.00                 | 0.00        | Ok     |  |  |
| 174 | Greater than 50% of mass 95        | 93.85                | 93.85       | Ok     |  |  |
| 175 | 5-9% of mass 174                   | 6.86                 | 7.31        | Ok     |  |  |
| 176 | 95-101% of mass 174                | 90.33                | 96.26       | Ok     |  |  |
| 177 | 5-9% of mass 176                   | 5.77                 | 6.39        | Ok     |  |  |

Injection Date: 09/23/98
Injection Time: 07:49
Data File: >C0394
Scan: 74



ile: >C0394 Scan #: 74 Retn. time: 4.41

| _/z            | Int.            | m/z            | Int.          | m/z   | Int.   | m/z    | Int.    | m/z    | Int.    |
|----------------|-----------------|----------------|---------------|-------|--------|--------|---------|--------|---------|
| 35.95          | 107.0           | 50.90          | 807.0         | 73.00 | 796.0  | 86.90  |         | 118.85 | 86.0    |
| 3.05           | 626.0           | 56.00          | 173.0         | 73.90 | 2235.0 | 87.90  | 683.0   | 129.75 | 74.0    |
| 3 <b>5.</b> 90 | 568.0           | 56.90          | 349.0         | 75.00 | 7831.0 | 90.90  | 86.0    | 140.75 | 111.0   |
| 39.00          | 209.0           | 60.00          | 109.0         | 75.90 | 708.0  | 91.90  | 401.0   | 142.75 | 93.0    |
| 3.90           | 217.0           | 60.90          | 619.0         | 76.90 | 126.0  | 92.90  | 615.0   | 156.75 | 60.0    |
| 4 . 90         | 1786.0          | 61.90          | 564.0         | 78.00 | 124.0  | 94.00  | 1781.0  | 173.85 | 16720.0 |
| 45.00          | 162.0           | 63.00          | 428.0         | 78.90 | 349.0  | 94.90  | 17816.1 | 174.85 | 1223.0  |
| 47.00          | 212.0           | 67.90          | 1503.0        | 79.80 | 142.0  | 96.00  | 1262.0  | 175.85 | 16094.0 |
| 490            | 85.0            | 68.90          | 1506.0        | 80.90 | 294.0  | 105.80 | 69.0    | 176.85 | 1028.0  |
| 48.90<br>49.90 | 526.0<br>2689.0 | 70.00<br>71.90 | 139.0<br>78.0 | 81.90 | 77.0   | 116.75 | 98.0    | 206.90 | 136.0   |

# AUGREDITED LABORATORISES, INC. AZLATTLE ORGANIC ANALYSIS DATA

| CASE NUMBER     |               |  |
|-----------------|---------------|--|
| SAMPLE NUMBER 🔃 | 115 1 × 1 6 4 |  |
| GATA FILE       | 0.1578        |  |
| COSMI NAME      |               |  |
|                 |               |  |

| MIRIO                                                     |                    |
|-----------------------------------------------------------|--------------------|
| ปฏิบัติสังสุด สิงสุดสุดสุดสุดสุดสุดสุดสุดสุดสุดสุดสุดสุดส | 1 3                |
| ame extracted                                             |                    |
| अग्रा २५५, ४३३३ 📑                                         | [4 ]] #8           |
| MACKIES BE                                                | iiiis ^e |

| 2222121      |                           |        |              |                |                            |       |             |
|--------------|---------------------------|--------|--------------|----------------|----------------------------|-------|-------------|
| .45 <b>#</b> | 19M23UN6                  | V4 + 1 | <b>ಇ</b> ನ್ನ | [49] 🛊         | 20wr.0089                  | J6 40 | <b>5</b> 9. |
| -/====       |                           |        |              |                |                            |       |             |
| 107978       | ρ _{crole:n}      | ;      | 55           | 18871          | 3.2-Cromlergorgaare        | Ü     | 5           |
| (37)*1       | Aprilantrila              | -      | F;           | 10061015       | praniušnica Narapropere    | Ü     | <b>E</b> .  |
| 14873        | (hisrowethare             | :      | r            | 15015          | Trichicroathene            |       | 5           |
| 14839        | Browsmethane              | 2      | 1            | 11432          | 1510615                    | Ţ.    | 5           |
| 75014        | Mingi Chlarige            |        | :            | [[44]]         | Drono koon jordi edhane    | -     |             |
| 15(4)3       | üm borgetrare             |        | -            | 79 <u>0</u> 15 | 1.1.[-Pr.objaraethesa      | 2     |             |
| 15077        | Methylesa injurise        | : :    | :            | 0000000        | trans-1.3-3not varapropene | L     | 5           |
| :7641        | Acetore                   | 2      | F            | 110,758        | Exit forsetry is to desher | ľ     | 5           |
| 75150        | Jarbon Displifide         | i.     | ٤            | 75.75.7        | Srameform                  | \$    | 5           |
| 75894        | Trick(snot)scrowethare    | 1      | •            | 591785         | g-Mevanore                 |       | 5           |
| 15354        | Lui-Dromio: peshebe       | 2      |              | 108101         | 4 Methy) Indentambre       | ü     | 5           |
| 75343        | 1.1-Qrahiardetaane        | -      | :            | 117124         | Tetrechiorsettese          | 1     | 5           |
| 153405       | trans-1.2-Decembercethese | ,      | r            | 25.545         | 1.1,2,2-Tetrechiorpethage  | Ŋ     | 5           |
| 5/883        | Chiarararu                |        | 5            | :09685         | To Nene                    | Ü     | 5           |
| :07767       | l,2-∂içmlorpethame        |        | L            | 108707         | lb7crobercese              | 7     | 5           |
| 78933        | 7-Butarione               | ,      | ξ.           | (704)4         | fithwise seae              | J     | 5           |
| 11556        | 1.1.1- michilarbechane    | ;      | ₹            | 150425         | ityresa                    | v     | 5           |
| 2 c 239      | Carpon Testacsionida      |        | :            | (770067        | And the first              | į.    | 10          |
| 108054       | Unnoi Acetate             | - ;    | · ·          | 95475          | \$-XVIENE                  | L     | 5           |
| 75.274       | Bramstickigramethere      | -      | *            | 156533         | ais-1.2-Dichlorsettene     | U     | 5           |
|              |                           |        |              |                |                            |       |             |

| 919900975 10M90,N09   | 38007E&1 | <u> </u> | 577705   |
|-----------------------|----------|----------|----------|
| 1.0-0 chiorpethare-o4 | <u> </u> | 13-121   | 25       |
| 1. Foese - 43         | 139.3    | FD 117   | <u>.</u> |
| Sharariyaraqergere    | 77.      | 4-11     |          |

Payment value of 115 in least for all terget concounce.

- Die Indicates result in basch on a chilution.

## QUANT REPORT

 perator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 980922 10:21

 put File: ^C0378::QT
 Injected at: 980922 09:50

 ata File: >C0378::C2
 Dilution Factor: 1.00000

ar :: VBLKC66

i 🖛 :

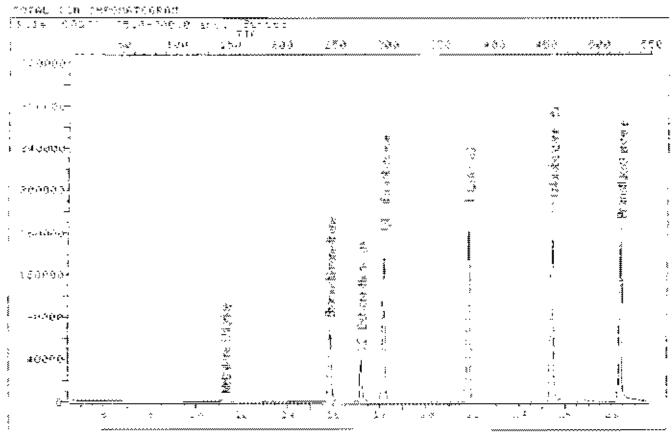
7 Tile: IDCS73::SC

i = e: Accredited Labs Volatile Identity File

ast Calibration: 980806 14:39

| *** | Compound              | R.T.  | Scan# | Area   | Conc  | Units | q   |
|-----|-----------------------|-------|-------|--------|-------|-------|-----|
| 1)  | *Bromochloromethane   | 15.81 | 248   | 130484 | 50.00 | ug/l  | 95  |
| 9   | Methylene Chloride    | 11.29 | 149   | 10219  | 2.34  | -     | 8.5 |
| 9 🖷 | l,2-Dichloroethane-d4 | 17.18 | 278   | 110589 | 43.54 | ug/l  | 8 4 |
| 1)  | ⊹l,4-Difluorobenzene  | 18.14 | 299   | 551285 | 50.00 | ug/l  | 100 |
| 7 ` | ÷Chlorobenzene-d5     | 25.40 | 458   | 435850 | 50.00 | ug/1  | 100 |
| 2   | Toluene-d8            | 21.79 | 3 7 9 | 520584 | 51.78 | ug/l  | 99  |
| 5)  | Bromofluorobenzene    | 28.36 | 5 2 3 | 275704 | 46.65 | ug/l  | 90  |

^{*} _lompound is ISTD



Data File: >00378::02

Quant Qutput File: [00378::QT

Name: VBLKC66

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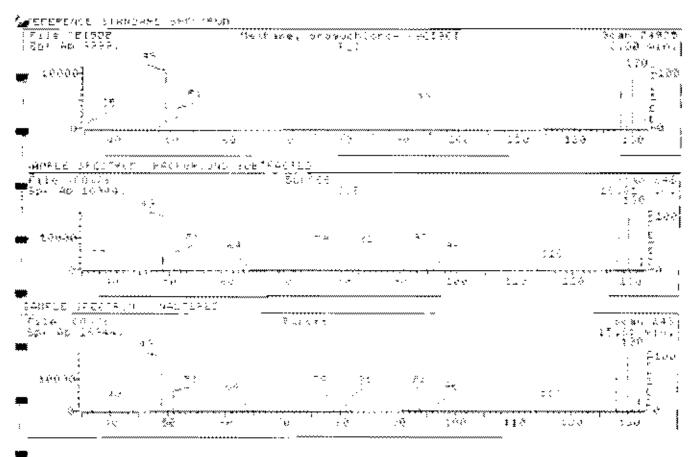
id File: IDCS73::SC

Title: Accredited Labs Volatile Identity File

East Calibration: 980806 14:39

Operator ID: WILLIAM

Quant Time: 980922 10:21 Inject## #s: 980972 09:40



Data File: >00378::02

Quant Sutput File: `CO378::QT

Name: VBLKC66

អាជីស្ត:

Quant Time: 980922 10:21 Injected at: 986922 09:50 Quant ID File: IDCS/3::50 Last Calibration: 980806 (4:39

I Că#șosted Ne: ! (ISTD)

Compound Name: Brownshipromethane

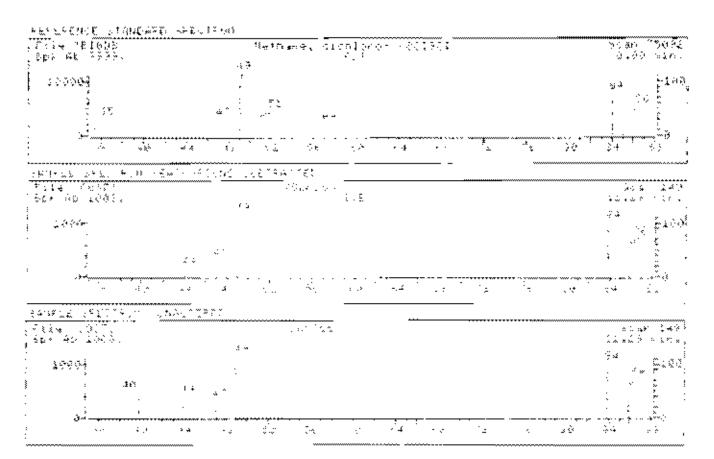
Scan Number: 248

, Retension Time: 15.81 min.

Quant Ion: 130.0 Acea: 130484

Concentration: 58,00 ug/1

q-value: 95



Data File: >C03/8::C2 Quant Output File: TEB)78::QT

Name: VB1KC66

Misc:

Quant Time: 980922 10:2) Quant ID File: 1005/3::50 [pacted at: 980922 69:50 [pacted at: 980800 14:39

Compound Nat 9

Compound Name: Methytene Chiotide

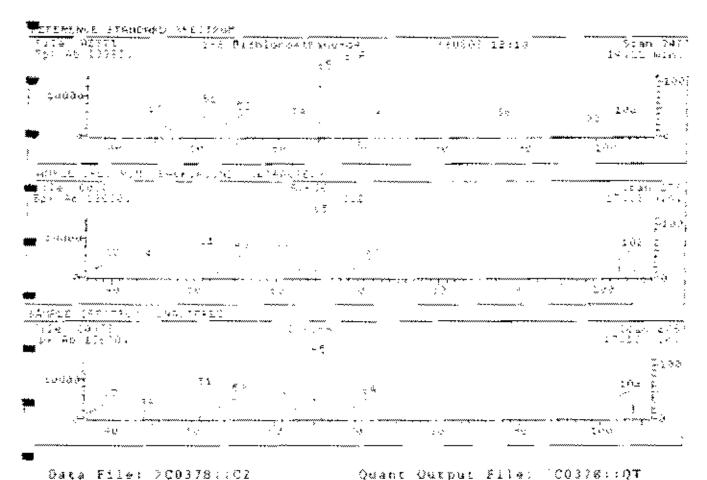
Scan Number: 149

Retention Times 11.29 win.

Quant Ion: 49.0 Area: 18219

Concentration: 2.34 ug/l

q-value: 85



Sata File: 200378::02

Mame: VBLKC56

Quant Time: 989922 10:21 ĭnjectoś at: 950432 09:50

Quant ID #ile: IDCS73::SC last Calibration: 950806 [4:39

Compound Not 19

Compound Name: 1.2-Wichlesperhase da

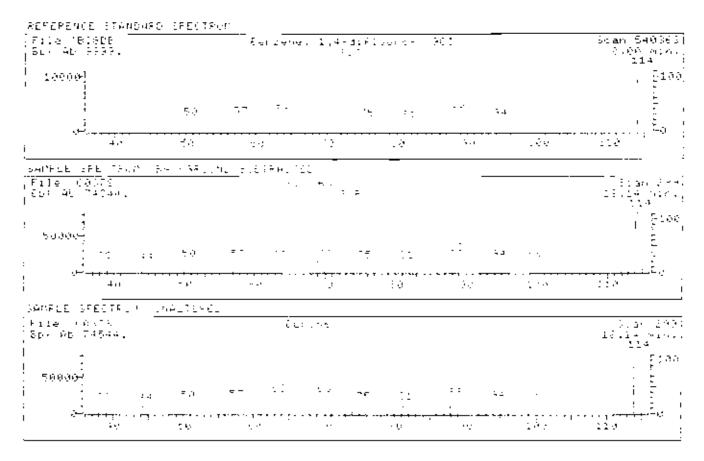
Scan Number: 278

Recention Time: 37.18 min.

Quant Ton: 65.0 Ares: 110589

Consentiation: \$3.54 #g/l

9~70】\$800 枝4



Data File: >C03/8::C2

Quant Cutput File: 1003/8::QT

Name: VBLKC66

Misc:

Compound No: 21 (ISTD)

Compound Name: 1,4-Difluorobenzene

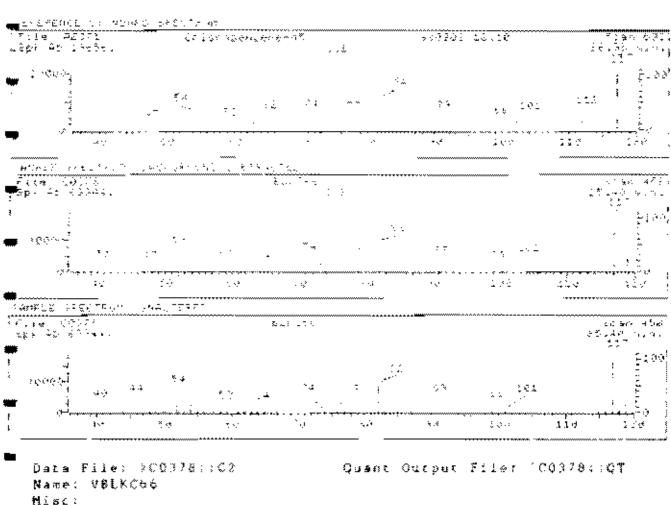
Scan Number: 299

Retention Time: 18,14 min.

Quant lon: 114.1 Area: 551285

Concentration: 50.00 ug/1

q-value: 100



Guahr Time: 980922 10:21 Injected at: 980922 09:50

Quant ID File: IBCS73:15C Last Calibration: 980906 (4;39

Compound Mai 37 (;STD)

Composite Name: Chlorobentere ⊲\$.

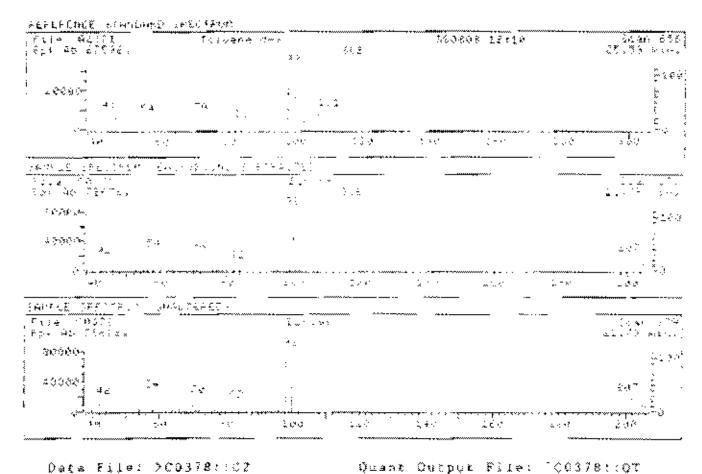
Scan Number: 458

Regention Time! -25.40 min.

Quant Ton: (1) ( Atea: 435850

50.00 ag/1 Concentration:

gyvalue: 100



Daga File: >00378::02

Name: VBL8066

Miles:

Quant Time: 980922 10:21 Injected at: 980922 09:50

Quant ID File: IDCS/3::SC Last Calibration: 980805 14:39

ಟ್ರಾಹಾಧಾರಚಾಗದ ಹೊಫ್ಫ್ 4%

Compound Name: Toluene-dS

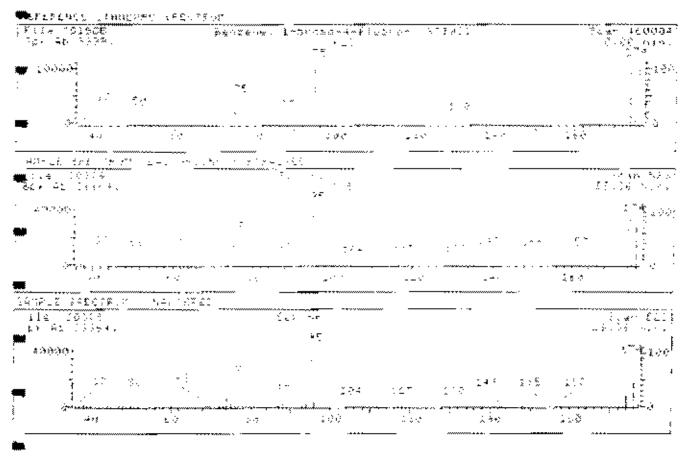
Scan Mumber: 329

21.39 min. Petention Time:

Quant Ion: 98.0 Area: 520584

Coacentration: \$1.78 mg/1

g-value: 39



Data F[le: )C03/8::C2

Quant Output File: `Co378;;OT

Name: V81KC66

Misc:

Quant Time: 980922 L0:21 17njetsd at: 980922 19:50

🏴 მელდადომ No: - რე

Compound Mame: Bromofinerebentana

Scan Number: 523

🗰 Retentjon Timer 28.35 min.

Quant Ion: 55.0 Area: 275704

_ Concentratyon: 45.65 U≷/i

q-value: 90

## AMEREBOTED LAGGRATURIES, ENS. VOLETTLE ENGANTLY PROLITAGE SOFTE

| 1460 KKE 66<br>1446 KKE 6<br>1874 ELF<br>1154 SAFE<br>1442 EL | <br>MARRIN<br>DOLUMBON FACESE<br>GAME ENFRACESI<br>DASS AMARICES<br>ANGUISEN A | 52.2<br>5.2.2<br>6.2.2<br>6.5.2 |
|---------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------|
| 17852 EL                                                      | <br>*3:".":.                                                                   | <u> </u>                        |

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|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|--|
| . 45 🏚                                 | DIMROGRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 50       | *1        | [. ; ↓                                  | 03%00.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .5 ±0      | * > .    |  |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | /_=r:r2s |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ********** | .3.98: . |  |
| .:1288                                 | 42.4 6 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | ¥.1       | 13611                                   | 01/1-01/21 Of 031/3 21 E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | 9        |  |
| .:``:                                  | Activities 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ,        | 71        |                                         | and the Property of the Common Artist Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common | :          | 4        |  |
| 1373                                   | Discontract and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | 4         | 121.3                                   | Y grant the Arman                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | - 4      |  |
| 143/3                                  | Language and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the | -        | ^         | 1,412                                   | -4.14.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.        | -        |  |
| 18 ) (5                                | ory`Stark €                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -        | 7         | , Ú <b>+</b> ×;.                        | } beshoor etyr⊎thx €                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ,          |          |  |
| 18393                                  | Dried agrobace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          | 2         | ```; *                                  | County for the factor of the first                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | *          | •        |  |
| 5)70                                   | fact, and us of ca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | : :      | :         | 1 12                                    | THE STATE OF STREET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | ÷        |  |
| 57.541                                 | AUB (orig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |           | .:::" <u>*3</u>                         | Coloroptoy wire attach                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3          |          |  |
| 11.160                                 | Eerson Orsi, XiXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | Ė         | 75]5]                                   | En Salet figur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | :          | -        |  |
| 16994                                  | Frence grottilige paetharu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <i>:</i> | 7         | 771795                                  | _ = t@ c45g * 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | :          | *        |  |
| 15354                                  | 1.4-2 chiartetiese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          | ź         | \$1,41,71                               | wifeth, illigentering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 5        |  |
| 75343                                  | ేపేశలక ేశం జచ్దిశాల                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |           | 121524                                  | Test gan for coptiese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ż          | £.       |  |
| 30005                                  | traz, 145 5%; 1/000 tractions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | :         | 79344                                   | วิ.ปังวังวักจักจักระหลอง ประชาจอกต                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | ۶.       |  |
| . 1543                                 | Object:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | •         | 172223                                  | ii; kere                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ą          | Ë        |  |
| 147955                                 | \$,5-Bect far te€th±rue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | Ÿ         | 118                                     | un koficoler områ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ^          | ξ.       |  |
| 13044                                  | \$^\$\\Z3*IE#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | :        | :         | 180414                                  | Stou tentere                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -          | ,        |  |
| 11.15                                  | lliyi-‴rationodtaano                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          | Ÿ.        | () ( <b>*</b> ()                        | åturører                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | :        |  |
| ·*2355                                 | űzeéss Téthapúltaspe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2        | <b>\$</b> | 1032007                                 | Carly Sania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ý          | ::       |  |
|                                        | ýkey∮ fr <del>gty</del> te                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | *        | 7,        | 274°S                                   | minister e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | *        |  |
| ^**                                    | September 1997 and the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1        | ė         | 10000                                   | อาชาวิลน้ำผังชาวั <b>ลาชอ</b> ธธร _ั ธาษ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | J.         | :        |  |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |          |  |

| <u>- 8,5409478,057#26#18</u> | 4077,700        | : e: + ; | wie in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in der in de |
|------------------------------|-----------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-04%% ofeensere-se          |                 | *: *: *: | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| in setench                   |                 | ÷:-::-   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| atrovař dotakeraete          | <del>::</del> ; | 4 11.    | Ŧ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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- Dir Indigater Hamalitika Bares in a denak e

#### QUANT REPORT

Ouant Rev: 6 Ouant Time: 980923 09:26 Injected at: 980923 08:55 e ator ID: WILLIAM ut File: ^C0396::QT ta File: >C0396::C2

Dilution Factor: 1.00000

ir :: VBLKC67

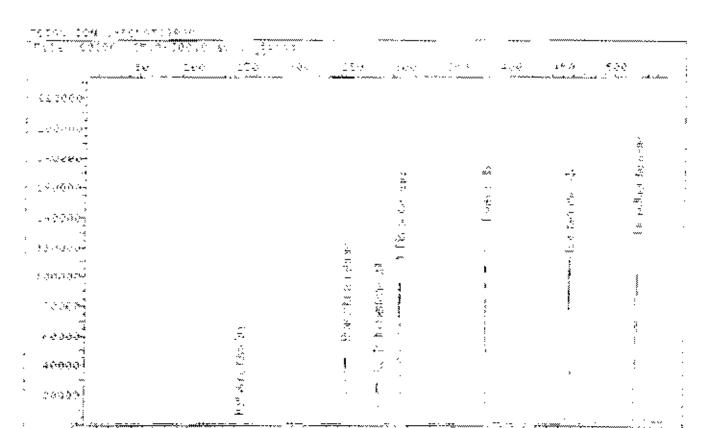
) File: IDCS73::SC

t.e: Accredited Labs Volatile Identity File

ist Calibration: 980805 14:39

| Compound                       | R.T.  | Scan# | Area   | Conc  | Units | q   |
|--------------------------------|-------|-------|--------|-------|-------|-----|
| ) *Bromochloromethane          | 15.77 | 247   | 91917  | 50.00 | ug/l  | 94  |
| / Methylene Chloride           | 11.20 | 1 4 7 | 6054   | 1.97  | ug/l  | 7 7 |
| 1,2-Dichloroethane-d4          | 17.18 | 278   | 79057  | 44.19 | ug/l  | 8 7 |
| ) *1,4-Difluorobenzene         | 18.09 | 298   | 382623 | 50.00 | ug/l  | 100 |
| <pre>\ *Chlorobenzene-d5</pre> | 25.35 | 457   | 307623 | 50.00 | ug/l  | 100 |
| Toluene-d8                     | 21.74 | 378   | 360995 | 50.87 | ug/l  | 99  |
| , 🏲 Bromofluorobenzene         | 28.32 | 522   | 193584 | 46.41 | ug/l  | 8 7 |

: :ompound is ISTD



Quant Quaput file: 'CO396::gT

Data File: >C039b::C2

Name: VBLKC6)

Misc

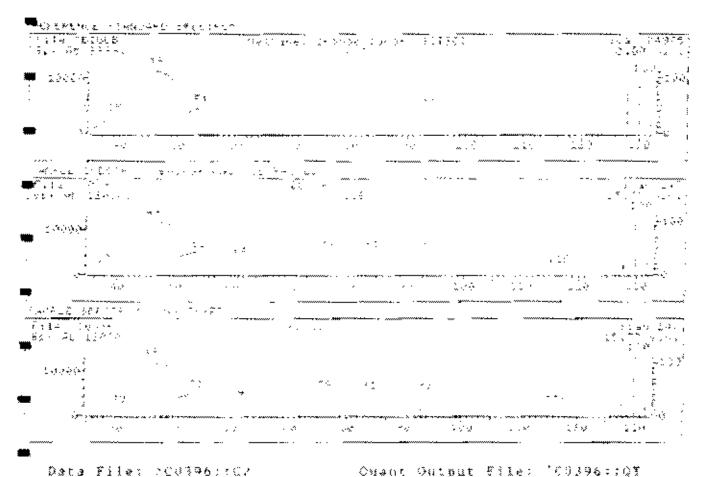
13 Film: 19057)::SU

Title: Accordated Labs Volatile Identity File

Lage Calibration: 96060e (4:)9

Operator 10: William

Quant Time: មិនីពីមីវិធី សុមី ទេ២ Injected ar: មិនបំពីវិធី ឯង ទើប



Data File: 200396::cc/

Name: VBLKC57

Quant Time: 980913 09:26 Tojected at: 980923 08:55 Last Calibration: 980805 (4:39)

Ocast 19 File: IDGS/3::50

Compound Not : (ISTD)

Сощрошна Каме: Втошось1оломецалае

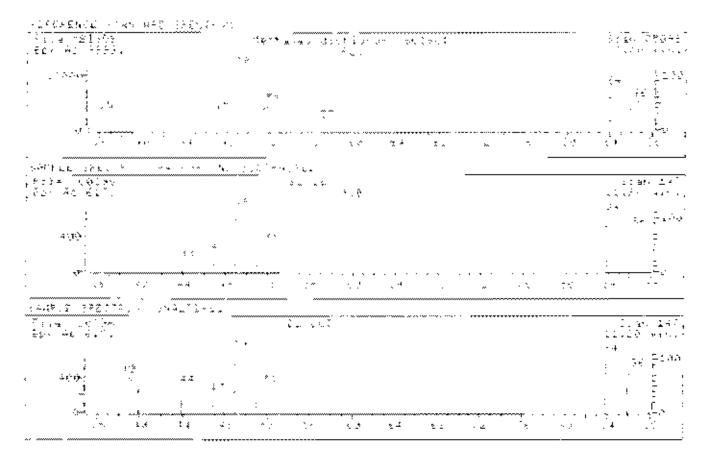
Scan Number: 247

Retantion Time: 15.77 mig.

Geant fon: 130.9 Area: 4191/

Contentration: 50.00 og/1

ប្∽មអ្វុក្ភ: ម៉ុស



Data Eile: >CU396:rC2

Ouant Gutput File: C0396;:OT

Name: VBIKC6?

Misc:

Quant Time: 980923 09:26 Quant [D File: IDCS:73::SC Injected at: 980923 08:35 Last Calibration: 980805 14:39

Compound No: 9

Compound Name: Methylene Chincide

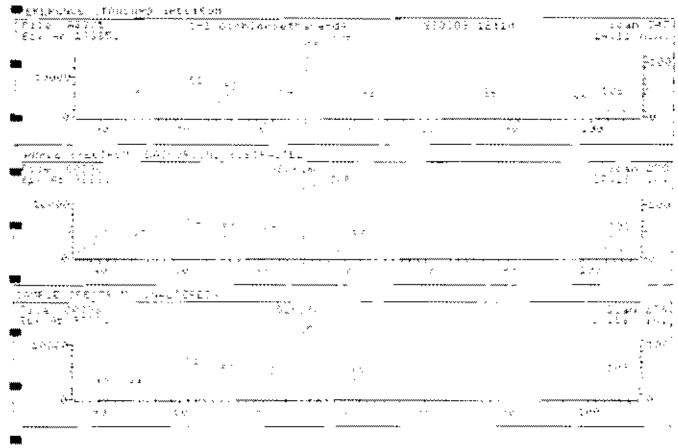
Scan Number: 147

Recention Time: 14,20 min-

Ouant Ion: 69.0 Atea: 6064

Concentration: 1.87 mg/l

g-value: 77



Data File: >003951;02

Quant Output File: [00346::07

Mame: VBEKC67

Misci

Quant Time: 980923 09:26 Ouant 10 File: 1005/3::50 Injected at: 980923 08:55 Last Calibration: 980806 (4:39)

🎚 ნითეაციშ ზი: 19

Compound Name: 1,2-Dichlorgethano-da

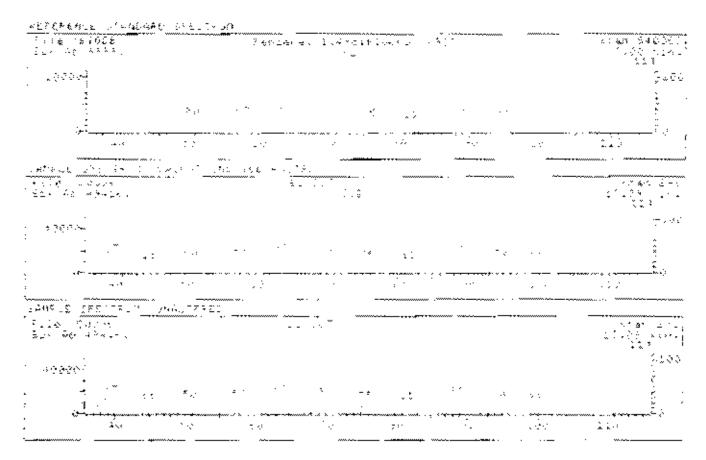
Scan Number: 278

🖚 Batenslos Time: (6.18 m.n.

Quant fon: 60.0 Area: 79057

. Concentration: 64.19 us/1

g-value: 87



Data File: >00396::02

- Ouant Cutput File: `f6396;;QT

Name: VBLKC67

M≨eç:

Quant Time: 980923 09:26 Quant ID File: IDC\$73::50 Injected at: 980923 08:55 Last Calibration: 980806 [4:39

Compound Me: 21 (ISTD)

Compound Name: 1.4.Diftmorobenzene

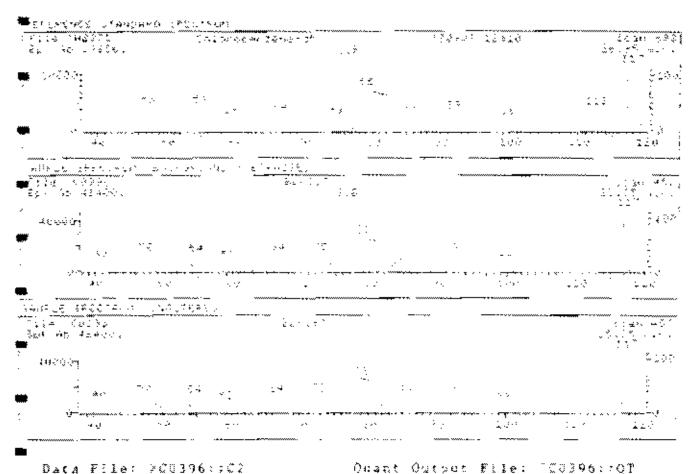
Scan Number: 396

Retantion Time: 18.89 min-

Ouant Ion: 1:4.1 Area: 382623

Coacentration: 50.00 ug/l

g-waine: 100



Data File: 200396::02

Name: VBLKC87

Miser

Quant Time: 988973 09:26 Quant ID File: [DCS/3::SC Injected at: 980923 08:55 Last Calibration: 989306 (4:39

Composad No: 37 (1570)

Compound Name: Chlorobenzesendh

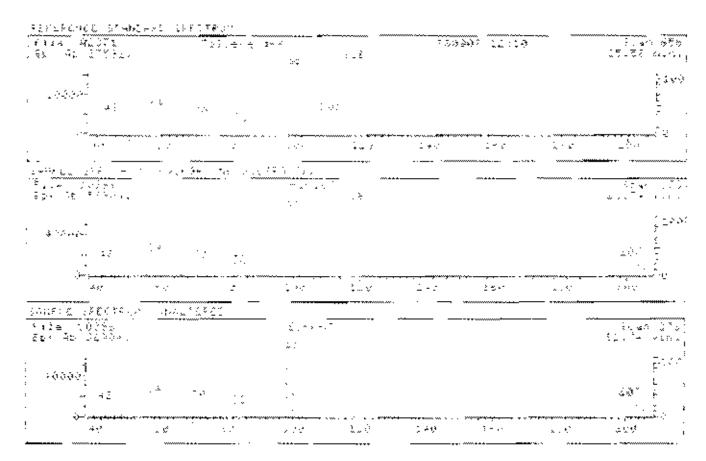
Scan Number: 457

Retention Time: 25:35 mid.

Quant Zon: 317. U Area: 307623

50.90 ue/l Concestration:

o-value: 190



Data ≸ile: >¢03965002

Name: VBLKC57

Misc

Omant Time: 980923 44:76 Injected at: 986923 48:55 Quant ID Film: IDC523::50 Umst Calibration: 980806 14:39

- Guant Cotput #114: `CO396::QT

ൈറ്റെയെലേർ **ଖ**ଡ; 42

Campound Name: Taluene-d8

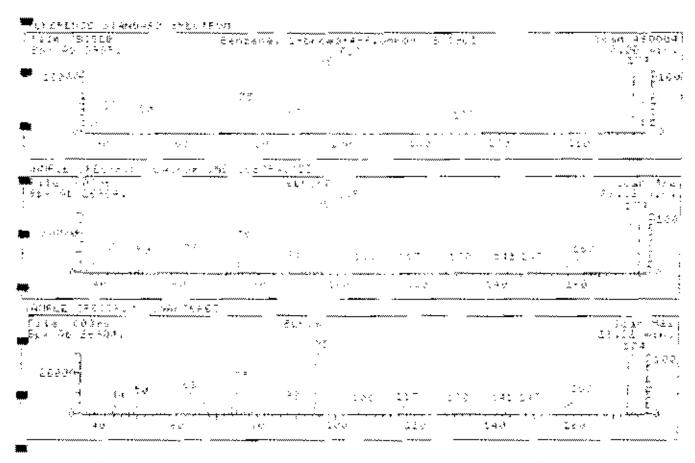
Scan Number: 378

Recention Time: 21.74 min.

Odant inn: 98.0 Area: Ingass

Concentration: 50.87 kg/1

q · value: 49



Data File: >00396::02

Ouant Osepuc File: "20395.:QT

Name: VBLKC67

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Quant Time: 980923 09:26 Quant ID File: 100573:550 Injected at: 980923 08:55 Last Calibration: 986805 34:39

் கேறைஷையாக இதை 145

Compound Name: Brownfluoronemmene

Scan Number: 522

– Řetentian Ťime: 28.32 min.

Quant Ion: 95.0 Area: 193584

Concentration: 45.41 Ug/1

q-value: 57

#### ACCREDITED LABORATORIES, INC. VOLATILE ORGANIC ANALYSIS DATA

| CASE NUMBER   |         |  |
|---------------|---------|--|
| SAMPLE NUMBER | BLANKMS |  |
| DATA FILE     | >C0382  |  |
| CLIENT NAME   |         |  |
| FIELD ID      |         |  |

| MATRIX           | Soil     |  |
|------------------|----------|--|
| DILUTION FACTOR  | 1.0      |  |
| DATE EXTRACTED _ |          |  |
| DATE ANALYZED    | 09/22/98 |  |
| ANALYZED BY      | WILLIAM  |  |

|         |                          |                | *************************************** |          |                           |       |         |
|---------|--------------------------|----------------|-----------------------------------------|----------|---------------------------|-------|---------|
| EAS #   | COMPOUND                 | UG/KG          | MDL                                     | CAS #    | COMPOUND                  | ne/ke | MDL     |
| ======= | *********************    |                | ======                                  | ======== | ***********               |       | :====== |
| 107028  | Acrolein                 | U              | 50                                      | 78875    | 1,2-Dichloropropane       | IJ    | 5       |
| 107131  | Acrylonitrile            | U              | 50                                      | 10061015 | cis-1,3-Dichloropropene   | U     | 5       |
| 74873   | Chloromethane            | U              | 5                                       | 79016    | Trichloroethene           | 48    | 5       |
| 74839   | Bromomethane             | ij             | Ę                                       | 71432    | Benzene                   | 51    | 5       |
| 75014   | Vinyl Chloride           | IJ             | ř.                                      | 124481   | Dibromochloromethane      | Ü     | 5       |
| 75003   | Chloroethane             | IJ             | £                                       | 79005    | 1.1.2-Trichloroethane     | U     | 5       |
| 75092   | Methylene Chloride       | 4 JB           | Ę                                       | 10061026 | trans-1.3-Dictloropropens | U     | 5       |
| 67641   | Acetone                  | 5              | 5                                       | 110758   | 2-Chloroethyluinulether   | IJ    | 5       |
| 75150   | Carbon Disulfide         | ij             | 5                                       | 75252    | Bromoform                 | Ü     | 5       |
| 75694   | Trichlorofluoromethane   | ¹ J | 5                                       | 591786   | 2-Hexanone                | IJ    | 5       |
| 75354   | 1.1-Dichloraethene       | ٥٥             | 5                                       | 108101   | 4-Methvl-2-pentanone      | U     | 5       |
| 25343   | 1.1-Dichloroethane       | ij             | 5                                       | 127184   | Tetrachlorsethene         | IJ    | 5       |
| 156605  | trans-1,2-Dichloroethene | Ü              | 5                                       | 79345    | 1,1,2,2-Tetrach orgethane | IJ    | 5       |
| 67663   | Chloroform               | Ü              | 5                                       | 108883   | Toluene                   | 52    | 5       |
| 107062  | 1,2-Dichloroethane       | 1 J            | 5                                       | 108907   | Chlorobenzene             | 51    | 5       |
| 78933   | 2-Butanone               | U              | ŗ                                       | 100414   | Ethylbenzene              | IJ    | 5       |
| 71556   | 1.1.1-Trichloroethane    | ij             | 5                                       | 100425   | Sturene                   | IJ    | 5       |
| 56235   | Carbon Tetrachloride     | U              | 5                                       | 1330207  | m.p-Xylene                | U     | 10      |
| 108054  | Vinyl Acetate            | IJ             | 5                                       | 95476    | o-Xvlene                  | U     | 5       |
| 75274   | Bromadichloromethane     | U              | 5                                       | 156592   | cis-1,2-Dichloroethene    | IJ    | 5       |

| <u> SURROGATE COMPOUNDS</u> | RECOVERY     | <u>LIMIT5</u> | <u>STATUS</u> |
|-----------------------------|--------------|---------------|---------------|
| 1,2-Dichloroethane-d4       | 89 %         | 70-121        | <u> 0K</u>    |
| Toluene-d8                  | <u>107</u> % | 81-117        | <u> 0K</u>    |
| Bromofluorobenzene          | <u>94</u> %  | 74-121        | <u> 0k</u>    |

Percent solid of 100 is used for all target compounds.

- J Indicates compound concentration found below MDL.
- D Indicates result is based on a dilution.
- I Result exceeds industrial surface soil standards.*
- 8 Indicates compound found in associated blank.
- J Indicates compound concentration found below MOL.
  B Indicates compound found in associated blank.
  B Indicates compound analyzed for but not detected.
  E Indicates result exceeds highest calibration standard
  - R Result exceeds residential surface soil standards.*

^{*} Flags are based on New Jersey Soil Eleanup Eriteria from Site Remediation News Volume 06 Number 1.

#### QUANT REPORT

Quant Time: 980922 13:51 Injected at: 930922 13:20 p rator ID: WILLIAM Quant Rev: 6

umput File: ^C0382::QT

ata File: >C0382::C2 Dilution Factor: 1.00000

at >: BLANKMS

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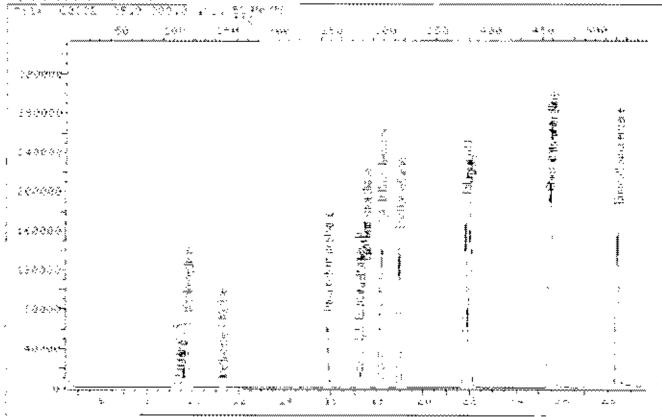
D File: IDCS73::SC

inte: Accredited Labs Volatile Identity File

a Calibration: 980806 14:39

| Compound                          | R.T.  | Scan# | Area    | Conc  | Units | q   |
|-----------------------------------|-------|-------|---------|-------|-------|-----|
| 1) *Bromochloromethane            | 15.82 | 248   | 119206  | 50.00 | ug/l  | 97  |
| 4` Freon-113                      | 9.34  | 106   | 41271   | 26.83 | ug/l  | 8 7 |
| θ _← Methylene Chloride | 11.26 | 148   | 13769   | 3.45  | ug/l  | 81  |
| 3) Acetone                        | 9.48  | 109   | 1766    | 5.62  | ug/l  | 100 |
| 3) l,l-Dichloroethene             | 9.75  | 115   | 186927  | 60.07 | ug/l  | 8 1 |
| 9 l,2-Dichloroethane-d4           | 17.19 | 278   | 103827  | 44.75 | ug/l  | 8 4 |
| ∃                                 | 17.46 | 284   | 3152    | 1.14  | ug/l  | 83  |
| l) *1,4-Difluorobenzene           | 18.15 | 299   | 554850  | 50.00 | ug/l  | 100 |
| ) Trichloroethene                 | 18.92 | 316   | 229175M | 48.08 | ug/l  |     |
| l 📻 Benzene                       | 17.46 | 284   | 458176  | 51.11 | ug/l  | 100 |
| 7) *Chlorobenzene-d5              | 25.40 | 458   | 428194  | 50.00 | ug/l  | 100 |
| 2` Toluene-d8                     | 21.80 | 379   | 529015  | 53,56 | ug/l  | 98  |
| 3_ Toluene                        | 21.98 | 383   | 559563  | 52.47 | ug/l  | 91  |
| 4) Chlorobenzene                  | 25.49 | 460   | 431153  | 51.20 | ug/l  | 98  |
| 5) Bromofluorobenzene             | 28.37 | 523   | 272827  | 46.99 | ug/l  | 91  |

 ^{★■}Compound is ISTD



Quant Output file: "C0382::QT

Data File: >C0382::€ž

Name: BLANKMS

Misct

Id File: IDCS/3::5C

Tiple: Accredited Labs Volatile Identity File

Last Calibration: 980806 14:39

Operator IS: WILLIAM

Quant Time: 980922 (3:4) Injected at: 980922 (3:20

## ACCREDITED LABORATORIES, INC. VOLATILE DRGANIC ANALYSIS DATA

| CEE NUMBER              |          |  |
|-------------------------|----------|--|
| SAMPLE NUMBER           | BLANKMSD |  |
| DATA FILE               | ·C0383   |  |
| CL_ENT NAME             |          |  |
| CL_ENT NAME<br>FLELD ID |          |  |

| MATRIX          | Soil            |  |
|-----------------|-----------------|--|
| DILUTION FACTOR | 1.0             |  |
| DATE EXTRACTED  |                 |  |
| DATE ANALYZED   | <u>09/22/98</u> |  |
| ANALYZED BY     | VILLIAM         |  |

| C###         | COMPOUND                 | 06/k6 | MDL      | CAS #    | COMPOUND                  | UG/KG | MOL |
|--------------|--------------------------|-------|----------|----------|---------------------------|-------|-----|
| 1: 028       | Acrolein                 | )     | 50<br>50 | 78875    | 1,2-9ichloropropane       |       | 5   |
| 1 1 31       | Acrylonitrile            | IJ    | 50       | 10061015 | cis-1,3-Dichloropropene   | U     | 5   |
| 74873        | Chloromethane            | Ü     | F,       | 79016    | Trichlorgethene           | 47    | 5   |
| 7:039        | Bromomethane             | ਪੁੰ   | 5        | 71432    | Senzene                   | 50    | 5   |
| 7_14         | Vinyl Chloride           | ij    | 5        | 124481   | Oibromochloromethane      | U     | 5   |
| 75003        | Chloroethane             | IJ    | 5        | 79005    | 1.1,2-Trichloroethane     | П     | 5   |
| 75092        | Methylene Chloride       | 3 JE  | 5        | 10061026 | trans-1,3-Dichloropropene | IJ    | 5   |
| 67 41        | Acetone                  | 7     | 5        | 110758   | 2-Chloroethylvinylether   | Ü     | 5   |
| 7950         | Carbon Disulfide         | U     | 5        | 75252    | Bromoform                 | IJ    | 5   |
| 75694        | Trichlorofluoromethane   | IJ    | 5        | 591786   | 2-Hexanone                | IJ    | 5   |
| 7! 54        | 1.1-Dichloroethene       | 57    | 5        | 108101   | 4-Methyl-2-pentanone      | U     | 5   |
| 7 13         | 1,1-Dichloroethame       | Ü     | 5        | 127184   | Tetrachloroethene         | U     | 5   |
| 156605       | trans-1.2-Dichloroethene | Ü     | 5        | 79345    | 1,1,2,2-Tetrachioroethane | U     | 5   |
| 67433        | Chloroform               | Ü     | 5        | 108883   | Toluene                   | 51    | 5   |
| 1, 362       | 1,2-Dichloroethane       | 1 3   | 5        | 108907   | Chlorobenzene             | 50    | 5   |
| 78733        | 2-Butanone               | Ŭ     | 5        | 100414   | Ethylbenzene              | U     | 5   |
| 71556        | 1,1,1-Trichloroethane    | J     | 5        | 100425   | Styrene                   | Ü     | 5   |
| 5∈ <b>35</b> | Carbon Tetrachloride     | IJ    | 5        | 1330207  | m.o-Xylene                | IJ    | 10  |
| 1 054        | Vinyl Acetate            | IJ    | 5        | 95476    | o-Xylene                  | Ü     | 5   |
| 75274        | Bromodichloromethane     | U     | 5        | 154592   | cis-1,2-Dichloroethene    | U     | 5   |

| <u> SURROGATE COMPOUNDS</u> | <u>recovery</u> | <u>LIMITS</u> | STATUS     |
|-----------------------------|-----------------|---------------|------------|
| 1,2-Dichloroethane-d4       | <u> </u>        | 70-121        | 0K         |
| Toluene-d8                  | <u> </u>        | 81-117        | <u> ak</u> |
| Bromofluorobenzene          | 95 %            | 74-121        | 9K         |

Percent solid of 100 is used for all target compounds.

- Indicates compound concentration found below MDL.
- U Indicates compound analyzed for but not detected.
- Indicates result is based on a dilution.
- --- Result exceeds industrial surface soil standards.*
- B Indicates compound found in associated blank.
- E Indicates result exceeds highest calibration standard
  - R Result exceeds residential surface soil standards.*
- * Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

#### QUANT REPORT

 perator ID: WILLIAM
 Quant Rev: 6
 Quant Time: 980922 14:28

 utput File: ^C0383::QT
 Injected at: 980922 13:57

 ata File: >C0383::C2
 Dilution Factor: 1.00000

ame: BLANKMSD

isc:

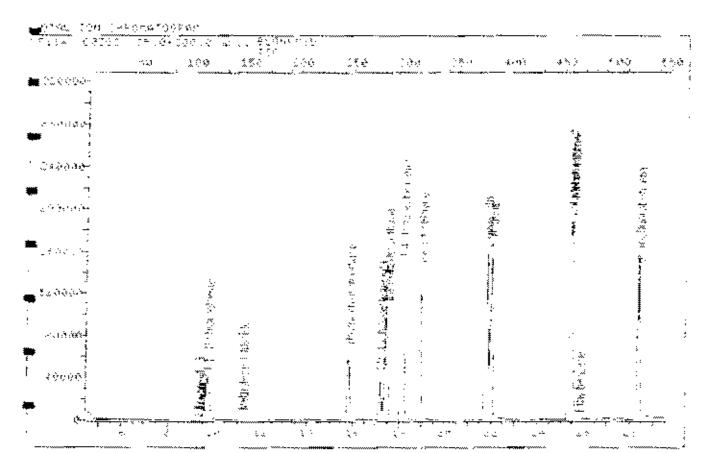
D File: IDCS73::SC

itle: Accredited Labs Volatile Identity File

ast Calibration: 980806 14:39

|    | Compound              | R . T . | Scan# | Area            | Conc  | Units | q   |
|----|-----------------------|---------|-------|-----------------|-------|-------|-----|
| 1) | *Bromochloromethane   | 15.82   | 248   | 109827          | 50.00 | ug/l  | 96  |
| 4) | Freon-113             | 9.39    | 107   | 32590           | 22.99 | ug/l  | 88  |
| 9) | Methylene Chloride    | 11.26   | 148   | 12145           | 3.30  | ug/l  | 83  |
| 0) | Acetone               | 9.43    | 108   | 1974            | 6.81  | ug/l  | 100 |
| 3) | l,l-Dichloroethene    | 9.75    | 115   | 164118          | 57.24 | ug/l  | 8 2 |
| 9) | 1,2-Dichloroethane-d4 | 17.19   | 278   | 97879           | 45.79 | ug/l  | 86  |
| 0) | 1,2-Dichloroethane    | 17.47   | 284   | 2690            | 1.06  | ug/l  | 8 2 |
| 1) |                       | 18.15   | 299   | 502532          | 50.00 | ug/l  | 100 |
| 0) | Trichloroethene       | 18.93   | 316   | 203122 <b>M</b> | 47.05 | ug/l  | 79  |
| 1) | Benzene               | 17.47   | 284   | 408938          | 50.36 | ug/l  | 100 |
| 7) | *Chlorobenzene-d5     | 25.41   | 458   | 392290          | 50.00 | ug/l  | 100 |
| 2) | Toluene-d8            | 21.76   | 378   | 483653          | 53.44 | ug/1  | 99  |
| 3) | Toluene               | 21.98   | 383   | 500494          | 51.23 | ug/1  | 91  |
| 4) | Chlorobenzene         | 25.50   | 460   | 387107          | 50.17 | ug/1  | 98  |
| 5) | Bromofluorobenzene    | 28.37   | 523   | 252490          | 47.47 | ug/l  | 93  |
| 6) | Ethylbenzene          | 25.82   | 467   | 911             | .07   | ug/l  | 66  |

^{*} Compound is ISTD



Data File: >00383::02

Quant Sutput File: 'C0383::QT

Name: BLANKMOD

Másct

Id File: IDCS73::SC

Title: Accredited Labs Volatile Edentity File

Last Calibration: 950806 14:34

Operator ID: WILLIAM

| Quant Time: 980972 |4:78 | Injected at: 980977 |3:57

## ACCREDITED LABORATORIES, INC. VOLATILE ORGANIC ANALYSIS DATA

| CASE NUMBER   |                 |  |
|---------------|-----------------|--|
| SAMPLE NUMBER | 9810360MS       |  |
| DATA FILE     | √C0 <b>3</b> 72 |  |
| CLIENT NAME   |                 |  |
| FIFID ID      |                 |  |

| MATRIX          | Soil     |  |
|-----------------|----------|--|
| DILUTION FACTOR | 1.0      |  |
| DATE EXTRACTED  |          |  |
| DATE ANALYZED   | 09/21/98 |  |
| ANALYZED BY     | WILLIAM  |  |

| =======       |                          |       |     |                 |                           |       |     |
|---------------|--------------------------|-------|-----|-----------------|---------------------------|-------|-----|
| CAS #         | COMPOUND                 | UG/KG | MDL | EAS #           | COMPOUND                  | UG/KG | MDL |
| 107028        | Acrolein                 |       | 52  | 78875           | 1,2-Dichloropropane       | U     | 5   |
| 107131        | Acrylonitrile            | IJ    | 52  | 10061015        | cis-1,3-Dichloropropene   | U     | 5   |
| 74873         | Chloromethane            | IJ    | 5   | 79016           | Trichloroethene           | 47    | 5   |
| 74839         | Bromomethane             |       | 5   | 71432           | Benzene                   | 52    | 5   |
| 75014         | Vinul Chloride           | U     | 5   | 124481          | Dibromochloromethane      | Ŋ     | 5   |
| 75003         | Chloroethane             | Ü     | 5   | 79005           | 1,1.2-TrichToroethane     | Ũ     | 5   |
| 75092         | Methylene Chloride       | 5 JB  | 5   | 10061026        | trans-1,3-Dichloropropene | U     | 5   |
| 67641         | Acetone                  | 12    | 5   | 110758          | 2-Chloroethyluinulether   | U     | 5   |
| 75150         | Carbon Disulfide         | U     | 5   | 75252           | Bromeform                 | U     | 5   |
| 75694         | Trichlorofluoromethane   | IJ    | 5   | 5 <b>9</b> 1786 | 2-Hexanone                | U     | 5   |
| 75354         | 1,1-Dichloroetheme       | 53    | 5   | 108101          | 4-Methyl-2-pentanone      | U     | 5   |
| 75343         | 1,1-Dichloroethane       | IJ    | 5   | 127184          | Tetrachloroethene         | Ú     | 5   |
| 156605        | trans-1,2-Dichloroethene | Ü     | 5   | 79345           | 1,1,2,2-Tetrachloroethane | 2 J   | 5   |
| 67663         | Chloroform               | U     | 5   | 108883          | Toluene                   | 55    | 5   |
| 107062        | 1,2-Dichloroethane       | IJ    | 5   | 108907          | Chlorobenzene             | 51    | 5   |
| 78933         | 2-Butanone               | U     | 5   | 100414          | Ethylbenzene              | U     | 5   |
| 71556         | 1,1,1-Trichloroethane    | U     | 5   | 100425          | Sturene                   | U     | 5   |
| 562 <b>35</b> | Carbon Tetrachloride     | U     | 5   | 1330207         | m.p-Xvlene                | U     | 10  |
| 108054        | Vinyl Acetate            | V     | 5   | 95476           | o-Xvlene                  | U     | 5   |
| 75274         | Bromodichloromethane     | U     | 5   | 156592          | cis-1.2-Dichloroethene    | U     | 5   |

| SURROGATE COMPOUNDS   | RECOVERY | <u>LIMITS</u> | <u>STATUS</u> |
|-----------------------|----------|---------------|---------------|
| 1.2-Dichloroethane-d4 | 91 %     | 70-121        | <u> </u>      |
| Toluene-d8            | 110 %    | 81-117        | <u> </u>      |
| Bromofluorobenzene    | 92 4     | 74-121        | <u> </u>      |

Percent solid of 96.8 is used for all target compounds.

- J Indicates compound concentration found below MDL.
- U Indicates compound analyzed for but not detected.
- D Indicates result is based on a dilution.
- I Result exceeds industrial surface soil standards.*
- B Indicates compound found in associated blank.
- E Indicates result exceeds highest calibration standard
  - R Result exceeds residential surface soil standards.*

^{*} Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

#### QUANT REPORT

p rator ID: WILLIAM Quant Rev: 6 Quant Time: 980921 20:29 uput File: ^C0372::QT Injected at: 980921 19:53 ata File: >C0372::C2 Dilution Factor: 1.00000

ame: 9810360MS

i :

D File: IDCS73::SC

i le: Accredited Labs Volatile Identity File

amt Calibration: 980806 14:39

| Compound                               | R.T.  | Scan# | Area   | Conc  | Units | q   |
|----------------------------------------|-------|-------|--------|-------|-------|-----|
| 1) *Bromochloromethane                 | 15.83 | 249   | 90715  | 50.00 | ug/1  | 95  |
| 4) Freon-113                           | 9.35  | 107   | 15952  | 13.62 | ug/l  | 90  |
| 9 Methylene Chloride                   | 11.26 | 149   | 14207  | 4.68  | ug/l  | 8 2 |
| 0 Proceeding                           | 9.44  | 109   | 2880   | 12.04 | ug/l  | 100 |
| <ol> <li>1,1-Dichloroethene</li> </ol> | 9.76  | 116   | 122405 | 51.69 | ug/l  | 80  |
| 9 l,2-Dichloroethane-d4                | 17.20 | 279   | 79968  | 45.29 | ug/l  | 86  |
| O ≈ 1,2-Dichloroethane                 | 17.42 | 284   | 1879   | .90   | ug/1  | 93  |
| l) *1.4-Difluorobenzene                | 18.16 | 300   | 367445 | 50.00 | ug/1  | 100 |
| )` Trichloroethene                     | 18.93 | 317   | 143306 | 45.40 | ug/l  | 81  |
| l 🛌 Benzene                            | 17.42 | 284   | 301568 | 50.80 | ug/l  | 100 |
| 7 🗖 *Chlorobenzene-d5                  | 25.41 | 459   | 261948 | 50.00 | ug/l  | 100 |
| ) Tetrachloroethene                    | 23.50 | 417   | 774    | . 23  | ug/1  | 93  |
| <pre>1 1,1,2,2-Tetrachloroethane</pre> | 28.56 | 528   | 3867   | 2.22  | ug/l  | 100 |
| 2 🗭 Toluene-d8                         | 21.76 | 379   | 332369 | 55.00 | ug/l  | 99  |
| 3) Toluene                             | 21.94 | 383   | 347069 | 53.20 | ug/l  | 90  |
| 4 Chlorobenzene                        | 25.50 | 461   | 256318 | 49.75 | ug/l  | 99  |
| 5 Bromofluorobenzene                   | 28,33 | 523   | 162536 | 45.76 | ug/l  | 87  |
| <ol> <li>Ethylbenzene</li> </ol>       | 25.59 | 463   | 4781   | .58   | ug/l  | 94  |
| 3' m,p-Xylene                          | 25.59 | 463   | 4781   | .83   | ug/l  | 79  |

tompound is ISTD

Data File: >C0372::C2

Owant Output File: 1003/2::07

÷.∵

Name< 4810350MS

÷

Misei

le File: IDCS73:∶58

Title: Accredited Labs Volstile Identity File

East Calibration: 980806 14:39

Operator ID: WILLIAM

Quant Time: 9\$0921 20:29 Injected at: 980921 14:53

## ACCREDITED LABORATORIES, INC. VOLATILE ORGANIC ANALYSIS DATA

| E NUMBER      |            |  |
|---------------|------------|--|
| SAMPLE NUMBER | 9810360MSD |  |
| DATA FILE     | -00373     |  |
| ( 'ENT NAME   |            |  |
| FTELD ID      |            |  |

| MATRIX          |          |  |
|-----------------|----------|--|
| DILUTION FACTOR | 1.0      |  |
| DATE EXTRACTED  |          |  |
| DATE ANALYZED   | 09/21/98 |  |
| ANALYZED BY     | WILLIAM  |  |

| <b>6</b> #  | COMPOUNO                 | UG/KG | MDL | CAS #                                   | COMPOUND                  | UG/KG | MDL    |
|-------------|--------------------------|-------|-----|-----------------------------------------|---------------------------|-------|--------|
| =======     |                          |       |     | ======================================= |                           |       | ====== |
| 1 7028      | Acrolein                 | IJ    | 52  | 78875                                   | 1,2-Dichloropropane       | U     | 5      |
| 1. 131      | Acrylonitrile            | U     | 5.2 | 10061015                                | cis-1.3-Dichloropropene   | ľ     | 5      |
| 74873       | Chloromethane            | Ŋ     | 5   | 79016                                   | Trichloroethene           | 48    | 5      |
| 74539       | Bromomethane             | Ú     | 5   | 71432                                   | Benzene                   | 53    | 5      |
| 7 14        | Vinyl Chloride           | IJ    | 5,  | 124481                                  | Dibromochloromethane      | IJ    | 5      |
| 75003       | Chloroethane             | Ú     | 5   | 79005                                   | 1,1,2-Trichloroethane     | U     | 5      |
| 75092       | Methylene Chloride       | 4 JB  | 5   | 10061026                                | trans-1.3-Dichloropropene | IJ    | 5      |
| 6 41        | Acetone                  | 12    | 5   | 110758                                  | 2-Chloroethylvinylether   | U     | 5      |
| <b>7</b> 50 | Carbon Disulfide         | U     | 5   | 75252                                   | Bromoform                 | U     | 5      |
| 75694       | Trichlorofluoromethane   | IJ    | 5   | 591786                                  | 2-Hexanone                | U     | 5      |
| 77754       | 1.1-Dichloroethene       | 53    | 5   | 108101                                  | 4-Methyl-2-pentanone      | U     | 5      |
| 7_43        | 1,1-Dichloroethane       | IJ    | 5   | 127184                                  | Tetrach loroethene        | U     | 5      |
| 156605      | trans-1,2-Dichloroethene | Ü     | 5   | 79345                                   | 1,1,2,2-Tetrachloroethane | 1 J   | 5      |
| 67463       | Chloroform               | U     | 5   | 108883                                  | Toluene                   | 55    | 5      |
| 1 062       | 1,2-Dichloroethane       | U     | 5   | 108907                                  | Chlorobenzene             | 52    | 5      |
| 78733       | 2-Butanone               | U     | 5   | 100414                                  | Ethylbenzene              | U     | 5      |
| 71556       | 1,1,1-Trichloroethane    | IJ    | 5   | 100425                                  | Styrene                   | Ü     | 5      |
| 5 35        | Carbon Tetrachloride     | U     | 5   | 1330207                                 | m.p-Xylene                | Ű     | 10     |
| 15054       | Vinyl Acetate            | Ü     | 5   | 95476                                   | o-Xvlene                  | U     | 5      |
| 75274       | Bromodichloromethane     | U     | 5   | 156592                                  | cis-1,2-Dichloroethene    | U     | 5      |

| <u> SURROGATE COMPOUNDS</u> | RECOVERY | <u>LIMITS</u> | <u>Status</u> |
|-----------------------------|----------|---------------|---------------|
| 1,2-Dichloroethane-d4       | 91 %     | 70-121        | <u> 0K</u>    |
| To luene-d8                 | 109 %    | 81-117        | <u> </u>      |
| Bromofluorobenzene          | 91 %     | 74-121        | <u> </u>      |

Percent solid of 96.8 is used for all target compounds.

- Indicates compound concentration found below MDL.
- U Indicates compound analyzed for but not detected.
- - Indicates result is based on a dilution.
- ___ Result exceeds industrial surface soil standards.*
- 8 Indicates compound found in associated blank.
- E Indicates result exceeds highest calibration standard
  - R Result exceeds residential surface soil standards.*
- * Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

#### QUANT REPORT

perator ID: WILLIAM Quant Rev: 6 Quant Time: 980921 21:11 atput File: ^C0373::QT Injected at: 980921 20:35

Dilution Factor: 1.00000

ame: 9810360MSD

isc:

) File: IDCS73::SC

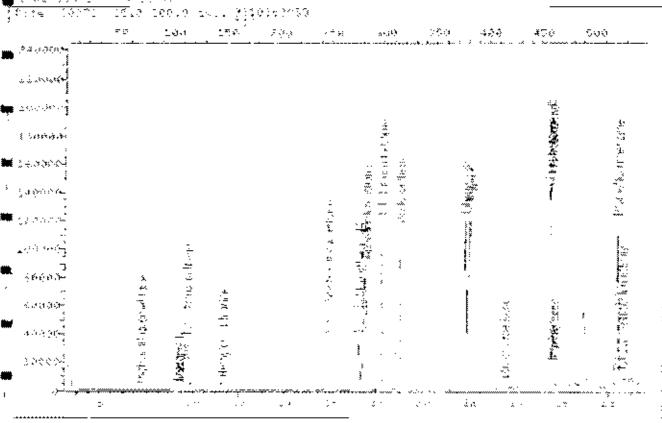
itle: Accredited Labs Volatile Identity File

ast Calibration: 980806 14:39

ata File: >C0373::C2

|            | Compound                  | R.T.  | Scan# | Area   | Conc  | Units | q   |
|------------|---------------------------|-------|-------|--------|-------|-------|-----|
| i )        | *Bromochloromethane       | 15.81 | 248   | 99622  | 50.00 | ug/l  | 96  |
| <b>4</b> ) |                           | 9.37  | 107   | 13924  | 10.83 | ug/1  | 88  |
| ₹)         | Methylene Chloride        | 11.29 | 149   | 13897  | 4.17  | ug/l  | 8 1 |
| ))         | Acetone                   | 9.42  | 108   | 3135   | 11.93 | ug/l  | 100 |
| 2)         | Trichlorofluoromethane    | 7.78  | 7 2   | 525    | . 17  | ug/l  | 91  |
| 3)         | l,l-Dichloroethene        | 9.74  | 115   | 133868 | 51.47 | ug/l  | 78  |
| <b>)</b> ) | l,2-Dichloroethane-d4     | 17.18 | 278   | 88272  | 45.52 | ug/l  | 8 7 |
| ))         | l,2-Dichloroethane        | 17.45 | 284   | 2210   | . 96  | ug/l  | 90  |
| . )        | ⊹l,4-Difluorobenzene      | 18.14 | 299   | 406996 | 50.00 | ug/l  | 100 |
| ))         | Trichloroethene           | 18.91 | 316   | 162945 | 46.60 | ug/l  | 78  |
| . )        | Benzene                   | 17.45 | 284   | 335665 | 51.04 | ug/l  | 100 |
| 7)         | ∻Chlorobenzene-d5         | 25.39 | 458   | 295312 | 50.00 | ug/l  | 100 |
| ))         | Tetrachloroethene         | 23.48 | 416   | 670    | .18   | ug/l  | 86  |
| l )        | l,l,2,2-Tetrachloroethane | 28.55 | 527   | 2151   | 1.09  | ug/l  | 100 |
| ?)         | Toluene-d8                | 21.74 | 378   | 370556 | 54.39 | ug/l  | 99  |
| 3)         | Toluene                   | 21.97 | 383   | 390938 | 53.16 | ug/l  | 91  |
| +)         | Chlorobenzene             | 25.49 | 460   | 292001 | 50.28 | ug/l  | 98  |
| 5)         | Bromofluorobenzene        | 28.32 | 5 2 2 | 182803 | 45.65 | ug/]  | 8 5 |
| ) )        | Ethylbenzene              | 25.58 | 462   | 5606   | .61   | ug/l  | 94  |
| 3)         | m,p-Xylene                | 25.58 | 462   | 5606   | .86   | ug/l  | 79  |

 $[\]epsilon$  Compound is ISTD



Data Films ACO373::CA Name: 9810360MSD Quant Suspus File: (C3373);Q5

Misc:

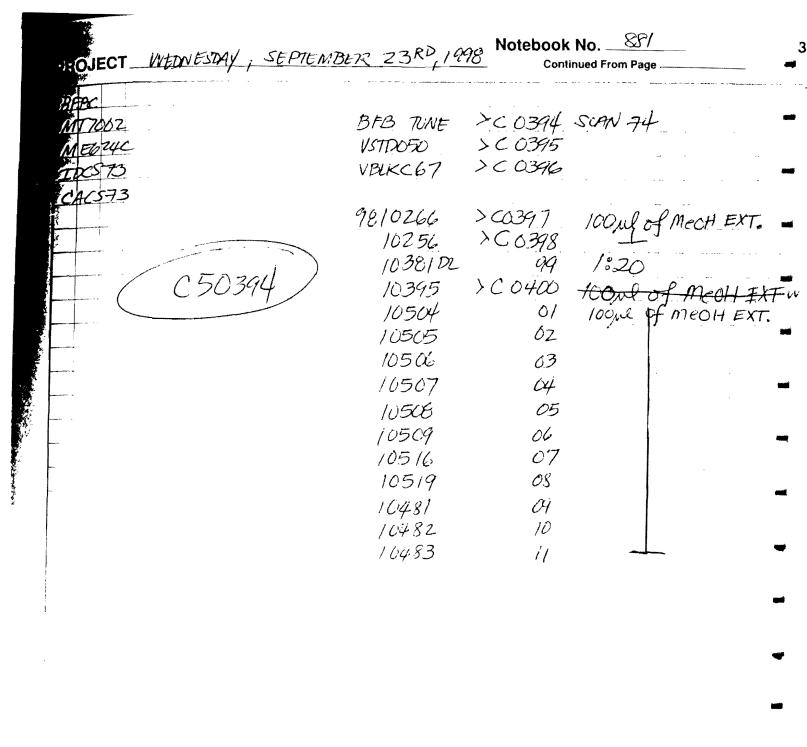
10 File: IDC173::30

Title: Accredited Labs Volatile Identity Fite

Last Calibration: 486806 (4)34

Operator Jü: Willian

Dient Time: 980971 Zitti Injected at: 980921 Z0:35



Continued on Page

Read and Understood By

09/23/98

11-114

Signe**d** 

⊌ate

Signed

Date

# Exhibit Q

# DRAFT FINAL VAPOR INTRUSION INVESTIGATION REPORT NEW CASSEL INDUSTRIAL AREA SITE # 130043

WORK ASSIGNMENT NO. D004434-31

#### Prepared for:

# **New York State Department of Environmental Conservation Albany, New York**

Prepared by:

MACTEC Engineering and Consulting, P.C. Portland, Maine

MACTEC: 3612092127

**MAY 2011** 

#### DRAFT FINAL VAPOR INTRUSION INVESTIGATION REPORT NEW CASSEL INDUSTRIAL AREA SITE # 130043

WORK ASSIGNMENT NO. D004434-31

| Prepared for:                                                               |
|-----------------------------------------------------------------------------|
| New York State Department of Environmental Conservation<br>Albany, New York |
|                                                                             |

Prepared by:

MACTEC Engineering and Consulting, P.C. Portland, Maine

MACTEC: 3612092127

MAY 2011

| Submitted by:     | Approved by:           |
|-------------------|------------------------|
|                   |                        |
|                   |                        |
|                   |                        |
| Jayme P. Connolly | Jeffrey S. Pickett     |
| Project Manager   | Principal Professional |

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#### GLOSSARY OF ACRONYMS AND ABBREVIATIONS

AS air sparge

bgs below ground surface

CDM Camp Dresser and McKee

DCA dichloroethane
DCE dichloroethene

DUSR Data Usability Summary Report

FAP Field Activities Plan

IRM interim remedial measure

MACTEC Engineering and Consulting, P.C.

MTBE Methyl Tertiary Butyl Ether

NCIA New Cassel Industrial Area

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

OU operable unit

PCE tetrachloroethene

PID photoionization detector

QAPP Quality Assurance Program Plan

Report Vapor Intrusion Investigation Report

ROD Record of Decision

#### GLOSSARY OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

RI Remedial Investigation

Site New Cassel Industrial Area site

SVE soil vapor extraction

TCA trichloroethane
TCE trichloroethene

μg/m³ microgram(s) per cubic meter

USEPA United States Environmental Protection Agency

VI vapor intrusion

VOC volatile organic compound

WA work assignment

#### 1.0 INTRODUCTION

MACTEC Engineering and Consulting, P.C. (MACTEC) was tasked by the New York State Department of Environmental Conservation (NYSDEC) to conduct a Vapor Intrusion (VI) Investigation for the New Cassel Industrial Area (NCIA) site (Site) (Site # 130043) in Nassau County, New York (Figure 1.1). The VI Investigation was conducted in accordance with Work Assignment (WA) No. D004434-31 (NYSDEC, 2009) and the Field Activities Plan (FAP) (MACTEC, 2010) to assess the potential for contamination at seven spill sites within the NCIA to result in exposure to volatile organic compounds (VOCs) from soil vapor migration.

#### 1.1 PROJECT BACKGROUND

WA D004434-31 included seven discrete properties within the NCIA:

- IMC Magnetics, 570 Main Street, New Cassel, NYSDEC Site No. 130043A;
- Atlas Graphics, 567 Main Street, New Cassel, NYSDEC Site No. 130043B;
- Tishcon Corp. (125 State Street), New Cassel, NYSDEC Site No. 130043C;
- Former Tishcon Corp., 68 Kinkel Street, Westbury, NYSDEC Site No. 130043F;
- Former Laka Industries, Inc., 62 Kinkel Street, Westbury, NYSDEC Site No. 130043K;
- EZ-EM, Inc., 750 Summa Avenue, North Hempstead, NYSDEC Site No. 130043N; and
- Tishcon Corp. (New York Ave), 29 New York Avenue, North Hempstead, NYSDEC Site No. 130043V.

#### 1.2 PURPOSE OF INVESTIGATION AND REPORT

Past activities associated with each of the sites within the NCIA have contributed to groundwater contamination. A soil vapor study around the perimeter of these properties in 2008 identified the potential for vapor migration into the buildings (Camp Dresser and McKee [CDM], 2008). This VI Investigation inside Site buildings was conducted to assess the potential for vapor migration.

The VI field work was performed in accordance with the FAP (MACTEC, 2010), Health and Safety Plan (MACTEC, 2005), and Quality Assurance Program Plan (QAPP) (MACTEC, 2007).

#### 1.3 REPORT ORGANIZATION

This Vapor Intrusion Investigation Report (Report) was prepared to summarize the field activities and corresponding soil vapor, indoor air, ambient air, and soil sampling results. A summary of field sampling activities completed in February and May 2010 as well as February 2011 is provided in Section 2. Findings from field sampling activities are presented in Section 3. Conclusions from the field sampling activities are presented in Section 4.

The following are provided as appendices:

- · Appendix A: Field Data Records
- · Appendix B: Structure Inspection/Inventory and Questionnaire
- · Appendix C: Photographic Logs
- · Appendix D: Direct Push Soil Boring Logs
- · Appendix E: Data Usability Summary Reports (DUSRs) and Analytical Data

#### 2.0 FIELD ACTIVITIES

Field activities summarized in this Report include one round of VI sampling during the 2010 and 2011 heating seasons. VI sampling activities were performed in February 2010 and February 2011 to evaluate the potential for vapor migration at seven properties within the NCIA. A direct push soil sampling program was also performed in May 2010 at the Tishcon Corp. New York Avenue Site (NYSDEC Site No. 130043V) to evaluate the presence/absence of a potential source area(s) in shallow soil adjacent to the building.

A summary of the property addresses and their corresponding structure identification number is provided in Table 2.1. Locations of the seven sites are shown on Figure 2.1.

#### 2.1 VI SAMPLING

VI sampling was conducted during the 2010 and 2011 heating seasons at seven structures within the NCIA. VI samples were collected over a 24-hour duration from each of the seven structures. Structures sampled in 2010 included VI samples from three (3) sub-slab locations and two (2) indoor air locations for VOC analysis, per New York State Department of Health (NYSDOH) guidance. When possible, an outdoor ambient air sample was collected in conjunction with the indoor air sample. In February of 2011, . three (3) sub-slab and three (3) indoor air samples were collected for VOC analysis at the Tishcon Corp. 125 State Street Site (NYSDEC Site No. 130043C).

A total of 21 sub-slab vapor samples, 15 indoor air samples, four (4) exterior ambient air samples and two duplicate samples were collected. VI samples were analyzed for VOCs using United States Environmental Protection Agency (USEPA) Method TO-15 (soil vapor/air) by Centek Laboratory from Syracuse, New York, a NYSDEC Environmental Laboratory Approval Program certified laboratory. Field data records were completed during the investigation and are provided in Appendix A.

#### 2.1.1 Structure Inspection/Inventory and Questionnaire

Prior to sample collection, MACTEC completed the NYSDOH "Indoor Air Quality Questionnaire and Building Inventory" form for each structure, screened ambient indoor air for total VOCs using a parts per billion miniRAE, and selected sample locations. Copies of the completed questionnaires are provided in Appendix B.

#### 2.1.2 Sub-Slab Vapor Sampling

Sub-slab vapor samples were collected from below the building's concrete slab in 1-liter SUMMA®-type canisters regulated with a 24-hour flow valve. The procedure detailed in the FAP (MACTEC, 2010) was followed for sub-slab vapor point installations.

Photographic logs documenting field activities conducted during the SVI at the seven structures are provided in Appendix C.

Approximately 24 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted on the field data record (Appendix A). Upon completion of the sampling, the tubing and stopper were removed from the building floor and the holes were filled with a fast drying concrete.

#### 2.1.3 Air Sampling

Indoor air samples were collected in 1-liter SUMMA®-type canisters in the vicinity of the sub-slab vapor sample collection points. MACTEC collected the indoor air sample away from sumps. Indoor air samples were collected from approximately four to six feet above the floor level. Indoor air samples were set up with 24-hour flow valves. Approximately 24 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted on the field data record (Appendix A).

Ambient air samples were collected in 1-liter SUMMA®-type canisters from the vicinity of four structures being sampled for indoor air and sub-slab vapor VOC contamination. Samples were collected from approximately three to six feet above ground surface. Ambient air samples were set up

with 24-hour flow valves. Approximately 24 hours after sample collection, the flow valves were shut off. The time and remaining vacuum in the canister were noted on the field data record (Appendix A).

Field quality control samples included duplicate sample collection. Two field duplicate samples were collected (Structure C and Structure V) at sub-slab vapor points using an in-line tee fitting to split the sub-slab vapor sample between two canisters.

#### 2.2 DIRECT PUSH SOIL SAMPLING – MAY 2010

Results obtained during the 2008 soil gas sampling program at the Tishcon Corp. New York Ave. Site (NYSDEC Site No. 130043V) (CDM, 2008) suggested a potential source area in soil adjacent to the southern portion of the Site. To fill this data gap, direct push soil sampling was conducted at the site: five (5) soil borings were advanced (DP-1 through DP-5). Soil borings were advanced using direct push technology as described in the Section 4.5.1.1 of the QAPP (MACTEC, 2007). Soil samples were collected from a five-foot long, 2 inch diameter core sampler with an acrylic liner. Soil samples were collected continuously from the ground surface to 25 feet below ground surface (bgs), or until refusal. Photoionization detector (PID) headspace readings was used to screen soil samples for the presence of total VOCs as each soil sample was removed from the sample collection tube. Samples were described using the Unified Soil Classification System. The sample description and classification, VOC headspace reading, and boring observations were recorded on the field data record as described in Subsection 4.5.2 of the QAPP (Appendix D). Refusal was encountered at location DP-3 at approximately 1 foot bgs; therefore soils samples were not collected from this location.

Based on the PID screening readings, the sample exhibiting the highest screening measurement from each of the soil borings (a total of four samples) was submitted to Chemtech Laboratories of Mountainside, New Jersey for VOCs by USEPA Method 8260B. Appendix D provides the direct push soil boring logs and relevant site photos.

#### 3.0 VAPOR INTRUSION INVESTIGATION FINDINGS

Laboratory results were reviewed and evaluated in accordance with the "Guidance for the Development of Data Usability Reports" (NYSDEC, 2002). Validated results and the Data Usability Summary Report are included as Appendix E. Tables 3.1 through 3.9 provide a summary of compounds detected and applicable New York State standards and/or guidance criteria.

The field data records and Structure Inspection/Inventory and Questionnaire for the NCIA sites are provided in Appendices A and B.

#### 3.1 IMC MAGNETICS (SITE 130043A) FINDINGS

The IMC Magnetics site is located at 570 Main St., New Cassel, New York in the western part of the NCIA. The site was listed as a Class 2 site in 1995. From October 1997 to 2004, IMC Magnetics Inc. operated a soil vapor extraction (SVE) system to remediate on-site soil contamination at the northwest corner of the Site. The Record of Decision (ROD) for operable unit (OU)-1, On-Site Soil Contamination, incorporating the SVE system, was issued in January of 1998. The ROD for OU-2 On-Site Groundwater was issued in March 2000. The remedy selected for groundwater remediation at this site was in-situ oxidation using hydrogen peroxide injection; treatment began in December 2001. It is unknown if groundwater treatment is currently taking place. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed high concentrations of VOCs in the soil vapor in excess of NYDOH guidelines, and concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) in excess of New York State standards for Class GA groundwater. The investigation suggested a potential source area in the northwest corner of the site and concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008)

VOCs detected in sub-slab vapor and indoor air samples collected from the IMC Magnetics site (Structure A) during the 2010 VI Investigation are shown in Table 3.1. Indoor air and sub-slab soil vapor locations are presented on Figure 3.1.

Chlorinated VOC results with associated NYSDOH guidance criteria, that were detected in the subslab soil vapor from Structure A (A-SS-01, A-SS-02 and A-SS-03) are:

- PCE concentrations ranged from 4,600 micrograms per cubic meter (μg/m³) to 400,000 μg/m³;
- cis-1,2-dichloroethene (DCE) concentrations ranged from non-detect to 2,800 EJ μg/m³;
- 1,1,1-trichloroethane (TCA) concentrations ranged from 2.8 μg/m³ to 240 μg/m³;
- TCE concentrations ranged from  $19 \mu g/m^3$  to  $4,400 J \mu g/m^3$ , and,
- carbon tetrachloride, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

Chlorinated VOC results with associated NYSDOH guidance criteria, that were detected in the indoor air from Structure A (A-IA-01 and A-IA-02) are:

- PCE concentrations ranged from 74 J μg/m³ to 220 μg/m³;
- cis-1,2-DCE concentrations ranged from non-detect to 1.6 μg/m³;
- TCE concentrations ranged from 1.6 J μg/m³ to 5.6 J μg/m³,
- carbon tetrachloride concentrations ranged from 0.45 J μg/m³ to 0.51 J μg/m³; and,
- 1,1,1-TCA, vinyl chloride and 1,1-DCE were not detected above the reporting limit.

#### 3.2 ATLAS GRAPHICS (SITE 130043B) FINDINGS

The Atlas Graphics site (Structure B) is located at 567 Main Street, Westbury, New York in the western part of the NCIA. The building was built in 1950, and used as a warehouse for construction vehicles until 1997. In 1997, the property was purchased by Atlas Graphics Inc., which currently operates a photo-engraving manufacturing operation. This operation uses a reported 312 gallons per year of TCE. At the time of its purchase, the building was connected to a cesspool for sanitary waste disposal. In 1977, there was a documented discharge of approximately 50 gallons of TCE to the cesspool. Analytical results detected elevated concentrations of TCE in the soil and groundwater above New York State standards. The ROD for this site was issued in February 2000, and selected an air sparging (AS) and SVE system as the remedy to address the on-site contaminated soil and groundwater. The AS/SVE system was constructed in October 2000 and was operated through November 2003. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor in excess of NYSDOH

guidelines and concentrations of PCE, TCE, and 1, 1, 1-TCA in excess of New York State standards for Class GA groundwater. The investigation suggested a potential source area at the site and concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor and indoor air samples for the Atlas Graphics site (Structure B) during the 2010 VI Investigation are shown in Table 3.2. Indoor air and sub-slab soil vapor locations are presented on Figure 3.2.

Chlorinated VOC results with associated NYSDOH guidance criteria, that were detected in the subslab soil vapor from Structure B (B-SS-01, B-SS-02 and B-SS-03) are:

- PCE concentrations ranged from 1,400 μg/m³ to 4,200 μg/m³;
- cis-1,2-DCE concentrations ranged from 8.5 μg/m³ to 26 μg/m³;
- 1,1,1-TCA concentrations ranged from 160 EJ μg/m³ to 240 μg/m³;
- TCE concentrations ranged from 4,100 μg/m³ to 31,000 μg/m³,
- 1,1-DCE concentrations ranged from non-detect to 2.5 µg/m³; and
- carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

Chlorinated VOC results with associated NYSDOH guidance criteria, that were detected in indoor air from Structure B (B-IA-01 and B-IA-02) are:

- PCE concentrations ranged from 1.6 J  $\mu$ g/m³ to 1.9 J  $\mu$ g/m³;
- TCE concentrations ranged from  $27 \mu g/m^3$  to  $28 \mu g/m^3$ ; and
- cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

#### 3.3 TISHCON CORP (125 STATE STREET) (SITE 130043C) FINDINGS

The Tishcon Corp site (Structure C) located at 125 State Street, New Cassel, New York is within the central part of the NCIA. Tishcon produced dietary supplements and vitamin products in the form of powders and tablets. The powders and tablets were produced in a dry blending process. From 1985 to 1993, the chemicals methylene chloride, 1,1,1-TCA, and methanol were used in the tablet coating process. Equipment used in the process was rinsed in the driveway where storm drains were located. Based on the presence of VOCs and metals in four storm drains at the site, the Nassau County

Department of Health requested that contaminated sediment be removed from the storm drains and a distribution box on the property. The excavation and restoration of the contaminated source areas, including two storm drains and a distribution box was completed as an Interim Remedial Measure (IRM) in October 1997. The ROD for the site was issued in January 1998 and required the excavation and restoration of the remaining source area. Excavation and disposal of this material was completed in the spring of 1999. In March 2000, the site was reclassified as a Class 4 site indicating the site was properly closed and monitoring is required. It is uncertain whether a monitoring program is currently being implemented at the Site. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the perimeter of the facility was conducted by CDM in 2008. Results from the investigation detected concentrations of solvent VOCs in the soil vapor in excess of NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, and 1,1,1-TCA but concentrations did not exceed New York State standards for Class GA groundwater. It was concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion at the site (CDM, 2008).

VOCs detected in sub-slab vapor, indoor air and ambient air samples for the Tishcon Corp. site (Structure C) during the 2011 VI Investigation are presented in Table 3.3. Indoor air and sub-slab soil vapor locations are presented on Figure 3.3.

Chlorinated VOC results with associated NYSDOH guidance criteria, that were detected in the sub-slab soil vapor at Structure C (C-SS-01, C-SS-01Duplicate, C-SS-02 and C-SS-03) are:

- PCE concentrations ranged from 860 μg/m³ to 9,800J μg/m³;
- cis-1,2-DCE concentrations ranged from non-detect to  $0.48 J \mu g/m^3$ ;
- 1,1,1-TCA concentrations ranged from 440 μg/m³ to 3,300J μg/m³;
- TCE concentrations ranged from 3.3 μg/m³ to 20 μg/m³;
- 1,1-DCE concentrations ranged from  $0.6 \mu g/m^3$  to  $2.4 \mu g/m^3$ ; and
- carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

Chlorinated VOC results with associated NYSDOH guidance criteria, that were detected in indoor air at Structure C (C-IA-01, C-IA-02 and C-IA-03) are:

- PCE concentrations were detected at 2.0 μg/m³;
- TCE concentrations ranged from 0.27  $\mu g/m^3$  to 0.55  $\mu g/m^3$ ;
- 1,1,1-TCA concentrations ranged from 1.0J  $\mu$ g/m³ to 1.0  $\mu$ g/m³;

- carbon tetrachloride concentrations ranged from  $0.51 \,\mu\text{g/m}^3$  to  $1.0 \,\mu\text{g/m}^3$ ; and,
- cis-1,2-DCE, 1,1-DCE, and vinyl chloride were not detected above the reporting limit.

# 3.4 FORMER TISHCON CORP., 68 KINKEL STREET (SITE 130043F) FINDINGS

The Former Tishcon Corporation site located at 68 Kinkel Street, Westbury, NY is located within the central part of the NCIA. The one quarter acre site is occupied by a single story, 2-bay garage. In 1982 and 1983, Tishcon utilized 1650 gallons of 1,1,1-TCA, 8000 gallons of methylene chloride, and 3000 gallons of shellac in its manufacturing process. A superfund investigation was completed in July 1996 and a ROD was issued in January 1997, requiring no action for this site. A soil vapor and groundwater investigation which consisted of five direct push borings drilled at the north, northeast, and northwest perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed elevated concentrations of VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including concentrations of PCE, TCE, Methyl Tertiary Butyl Ether (MTBE) and cis-1,2-DCE in excess of New York State standards for Class GA groundwater. The investigation suggested a potential source area at the site and concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor and indoor air samples for the Former Tishcon Corp site (Structure F) during the 2010 VI Investigation are shown in Table 3.4. Indoor air and sub-slab soil vapor locations are presented in Figure 3.4.

Chlorinated VOC results with associated NYSDOH guidance criteria that were detected in the subslab soil vapor from Structure F (F-SS-01, F-SS-02 and F-SS-03) are:

- PCE concentrations ranged from 110 J μg/m³ to 290 μg/m³;
- 1,1,1-TCA concentrations ranged from 9.9  $\mu g/m^3$  to 110  $\mu g/m^3$ ; and
- TCE concentrations ranged from 0.6 J  $\mu$ g/m³ to 4.2  $\mu$ g/m³.
- carbon tetrachloride, cis-1,2-DCE, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

Chlorinated VOC results with associated NYSDOH guidance criteria that were detected in indoor air from Structure F F-IA-01 and F-IA-02) are:

• PCE concentrations ranged from 1.7 J μg/m³ to 1.9 J μg/m³;

carbon tetrachloride concentrations ranged from 0.45 J µg/m³ to 0.51 J µg/m³

- TCE concentrations ranged from 1.8 J μg/m³ to 3.2 μg/m³; and,
- cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

# 3.5 FORMER LAKA INDUSTRIES, INC. (SITE 130043K) FINDINGS

The Former LAKA Industries, Inc. site located at 62 Kinkel Street, Westbury, New York is within the central part of the NCIA. The former occupants, LAKA Tools and Stamping, and LAKA Industries used TCE as a degreaser. Soil samples collected from an abandoned drywell or cesspool contained TCE and cis-1,2- DCE. Groundwater samples collected at the same locations also contained TCE and cis-1,2-DCE. A plume of contaminated groundwater emanates from the site and has reportedly migrated approximately 700 feet down gradient from the Site. A Focused Remedial Investigation (RI) Report dated November 1998 and a Focused Feasibility Study dated May 1999 has been completed. The Proposed Remedial Action Plan for OU-1 on-site soil and groundwater was completed in September 1999; the selected remedy was the excavation and off-site disposal of soil and monitoring of the on-site groundwater for at least two years. The ROD for OU-1 was issued in February 2000 and remedial action for OU-1 began in February 2002. A soil vapor and groundwater investigation which consisted of five direct push borings drilled around the northern perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, MTBE, 1,1-DCA and cis-1,2-DCE but no VOC contaminants were detected in excess of New York State standards for Class GA groundwater. The investigation concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor and indoor air samples for the Former LAKA Industries, Inc site (Structure K) during the 2010 VI Investigation are shown in Table 3.5. Indoor air and sub-slab soil vapor locations are presented in Figure 3.5.

Chlorinated VOC results with associated NYSDOH guidance criteria that were detected in the subslab soil vapor from Structure K (K-SS-01, K-SS-02 and K-SS-03) are:

• PCE concentrations ranged from 280 μg/m³ to 1,500 μg/m³;

- carbon tetrachloride concentrations ranged from non-detect to 0.7 J μg/m³,
- cis-1,2-DCE concentrations ranged from 1.3 μg/m³ to 120 μg/m³;
- 1,1,1-TCA concentrations ranged from 36 μg/m³ to 2,100 μg/m³;
- TCE concentrations ranged from 490 J μg/m³ to 10,000 μg/m³, and
- 1,1-DCE and vinyl chloride were not detected above the reporting limit.

Chlorinated VOC results with associated NYSDOH guidance criteria that were detected in indoor air from Structure K (K-IA-01 and K-IA-02) are:

- PCE concentrations ranged from 1.7 μg/m³ to 5.4 μg/m³;
- carbon tetrachloride was detected at 0.51 J μg/m³;
- TCE concentrations ranged from  $0.6 \mu g/m^3$  to  $0.87 \mu g/m^3$ ; and
- cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA and vinyl chloride were not detected above the reporting limit.

# 3.6 EZ-EM, INC. (SITE 130043N) FINDINGS

The EZ-EM, Inc. site is located at 750 Summa Ave, North Hempstead, NY in the NCIA. Advanced Food Service Equipment Manufacturing, a stainless steel kitchen equipment supplier, occupied the site between 1968 and 1971. Micro Industries, a machine shop, occupied the site between 1971 and 1982. EZ-EM has been at the site since 1982. Records indicate that Advanced Food Service stored or used 1,1,1-TCA and other solvents while at the site. A vat used for degreasing operations was located in the southwest corner of the building. A floor drain near the vat was sealed in 1978. Sample(s) collected from a dry well between 1978 and 1985 contained 1,1,1-TCA. The degreasing vat was removed in 1985. Records also show that 1,1,1-TCA and waste oil were stored in drums in the rear of the facility. It is reported that previous investigations have found high concentrations of contaminants in groundwater near the former disposal area and lower levels of contaminants from upgradient locations. Contamination at the site has been considered to be localized. A soil vapor and groundwater investigation which consisted of five direct push borings drilled at the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, and 1,1,1-TCA with PCE and 1,1-TCA detected in excess of New York State standards for Class GA groundwater. The investigation concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor and indoor air samples for the EZ-EM, Inc site (Structure N) during the 2010 VI Investigation are shown in Table 3.6. Indoor air and sub-slab soil vapor locations are presented on Figure 3.6.

Chlorinated VOC results with associated NYSDOH guidance criteria that were detected in the subslab soil vapor from Structure N (N-SS-01, N-SS-02 and N-SS-03) are:

- PCE concentrations ranged from 1,200 μg/m³ to 15,000 μg/m³;
- 1,1-DCE concentrations ranged from non-detect to 32 μg/m³;
- cis-1,2-DCE concentrations ranged from non-detect to 2 μg/m³;
- 1,1,1-TCA concentrations ranged from 390 μg/m³ to 53,000 μg/m³;
- TCE concentrations ranged from  $80 \mu g/m^3$  to  $3{,}200 J \mu g/m^3$ , and
- carbon tetrachloride and vinyl chloride were not detected above the reporting limit.

Chlorinated VOC results with associated NYSDOH guidance criteria that were detected in indoor air from Structure N (N-IA-01 and N-IA-02) are:

- PCE concentrations ranged from 1 μg/m³ to 1.6 μg/m³;
- carbon tetrachloride concentrations ranged from 0.58 J μg/m³ to 0.7 J μg/m³;TCE concentrations ranged from non-detect to 0.33 μg/m³;
- 1,1,1-TCA concentrations were 1.2 μg/m³, and
- cis-1,2-DCE, 1,1-DCE and vinyl chloride were not detected above the reporting limit.

# 3.7 THE TISHCON CORPORATION, NEW YORK AVE (SITE 130043V) FINDINGS

The Tishcon Corporation New York Avenue site is located within the NCIA at 29 New York Avenue, North Hempstead, NY midway between Old County Road and Main Street. The Site was developed in 1952 and was used to manufacture electronic equipment until the late 1970s. Tishcon occupied the Site from 1979 to 1991 (CDM, 2008). The Tishcon Corporation manufactures dietary supplements such as vitamins. Soft gelatin capsules are also manufactured by this company. As part of the process, a 1,1,1-TCA dip was used to remove mineral oil from the capsules. Approximately four drums of 1,1,1-TCA were used per week. Soil samples collected in 1998 from an open catch basin located in the parking lot contained 1,1,1-TCA, 1,1-DCA, and methylphenol. Past operations have contaminated at least one dry well with VOCs, and the on-site contamination is believed to affect underlying

groundwater with a resulting plume that has migrated approximately 1000 feet down gradient. A RI was completed in January 2000. Based on the results, an IRM was carried out in 2000 to remove contaminated soil from the on-site dry well. The dry well was remediated in 2001. Confirmation samples showed concentrations of VOCs remaining in soils on site were below cleanup levels. A ROD was signed in 2002 recommending no further action and the site was delisted (NYSDEC, 2002). A soil vapor and groundwater investigation which consisted of five direct push borings drilled at the perimeter of the facility was conducted by CDM in 2008. Results from the investigation revealed concentrations of solvent VOCs in the soil vapor that exceeded NYSDOH guidelines. VOCs were detected in groundwater including PCE, TCE, 1,1,1-TCA, cis-1,2-DCE, 1,1-DCA and 1,1-DCE detected in excess of New York State standards for Class GA groundwater. Concentrations of VOC contaminants in excess of the groundwater standards were observed in all five of the sample locations. The investigation concluded that further investigation was required to evaluate potential exposures associated with vapor intrusion (CDM, 2008).

VOCs detected in sub-slab vapor and indoor air samples for the Tishcon Corp., New York Avenue site (Structure V) during the 2010 VI Investigation are shown in Table 3.7. Indoor air and sub-slab soil vapor locations are presented in Figure 3.7.

Chlorinated VOC results with associated NYSDOH guidance criteria that were detected in the subslab soil vapor at Structure V (V-SS-01, V-SS-02 and V-SS-03) are:

- PCE concentrations ranged from 780 J μg/m³ to 1,500 μg/m³;
- 1,1-DCE concentrations ranged from  $54 \mu g/m^3$  to  $780 J \mu g/m^3$ ;
- cis-1,2-DCE concentrations ranged from non-detect to 49 μg/m³;
- carbon tetrachloride concentrations ranged from non-detect to 0.9 J  $\mu g/m^3$ ,
- 1,1,1-TCA concentrations ranged from 290 J μg/m³ to 27,000 μg/m³;
- TCE concentrations ranged from 5.8 J  $\mu$ g/m³ to 1,000  $\mu$ g/m³, and
- vinyl chloride was not detected above the reporting limit.

Chlorinated VOC results with associated NYSDOH guidance criteria that were detected in indoor air from Structure V (V-IA-01 and V-IA-02) are:

- PCE concentrations ranged from 610 μg/m³ to 1,600 J μg/m³;
- TCE concentrations were 2.5 J µg/m³;
- carbon tetrachloride concentrations were 0.51 J μg/m³;

- 1,1,1-TCA concentrations ranged from 4.2 J  $\mu$ g/m³ to 4.7 J  $\mu$ g/m³; and
- cis-1,2-DCE, 1,1-DCE and vinyl chloride concentrations were non-detect.

Ambient air samples were collected, when possible, from the NCIA study area to demonstrate overall ambient air conditions at the time of sampling. Ambient air sample results from 2010 and 2011 are provided in Table 3.8.

Table 3.9 provides direct push soil sampling VOC results. Soil boring locations are presented on Figure 3.8. Direct push soil boring results indicate potential site contaminants (1,1,1-TCA and 1,1-DCA) detected in two of the four samples collected. Soil VOC results for the Tishcon Corp., New York Avenue site did not exceed the New York Codes, Rules and Regulations Title 6 Part 375 Soil Cleanup Objectives for unrestricted use for any of the compounds detected.

#### 4.0 CONCLUSIONS

MACTEC Engineering and Consulting, P.C. sampled seven facilities located within the NCIA as part of a VI Investigation for the NYSDEC. Based on the results of study, VOCs for which NYSDOH guidance criteria exist, were detected at the seven structures sampled. Results were compared to criteria as established in the New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (NYSDOH, 2006). In six of the seven structures sampled during the VI Investigation, soil vapor and indoor air results for at least one compound exceeded the NYSDOH Guidance criteria for *Mitigate*, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, 2006). Although this guidance is based on a residential 24-hour exposure scenario, it is considered a conservative exposure estimate since exposure at each of the Sites is considerably lower given the fact the facilities in this study are of a commercial nature and individuals are not likely to be exposed for a 24 hour duration.

Results exceeding NYSDOH Guidance criteria for *Monitor and/or Mitigate* are as follows:

Structure A: IMC Magnetics (NYSDEC Site No. 130043A).

• cis-1,2-DCE, TCE and PCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure B: Atlas Graphics (NYSDEC Site No. 130043B).

• TCE and PCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure C: Tishcon Corp. (NYSDEC Site No. 130043C).

• PCE and 1,1,1-TCA exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure F: Former Tishcon Corp. (NYSDEC Site No. 130043F).

• 1,1,1-TCA and PCE exceeded NYSDOH Guidance criteria for *Monitor*.

Structure K: Former LAKA Industries, Inc. (NYSDEC Site No. 130043K).

• 1,1,1-TCA, PCE and TCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure N: Former EZ-EM, Inc. (NYSDEC Site No. 130043N).

• 1,1,1-TCA, PCE and TCE exceeded NYSDOH Guidance criteria for *Mitigate*.

Structure V: Tishcon Corp, New York Ave. (NYSDEC Site No. 130043V).

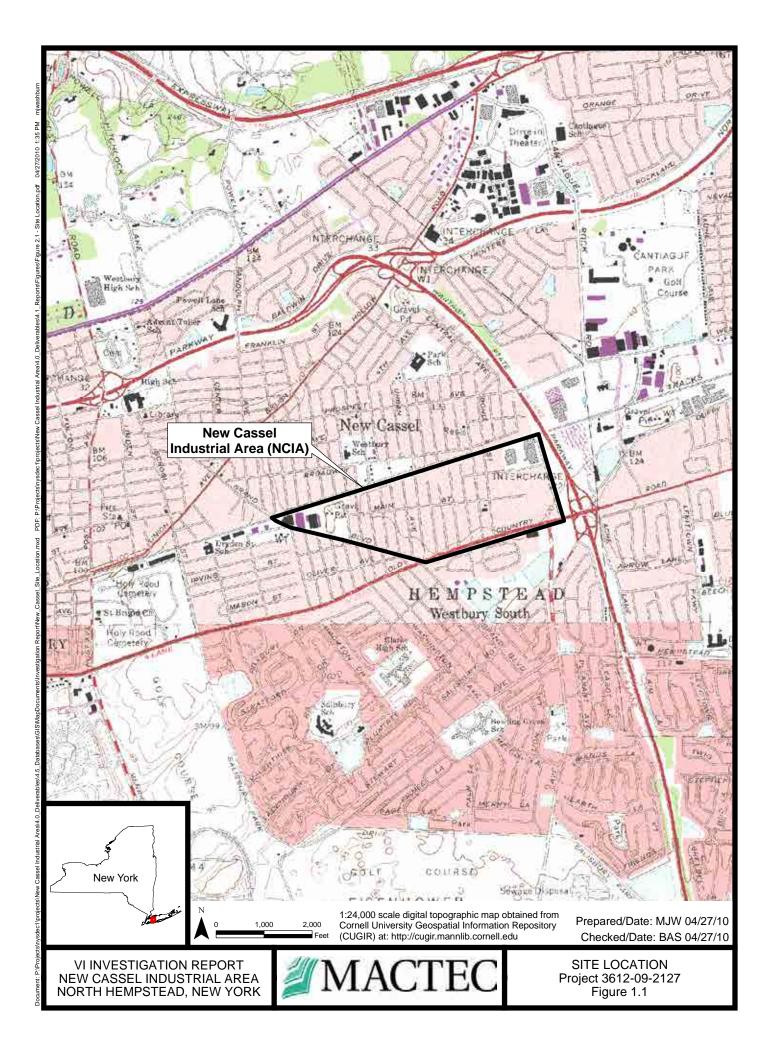
• 1,1,1-TCA, PCE and TCE exceeded NYSDOH Guidance criteria for *Mitigate*.

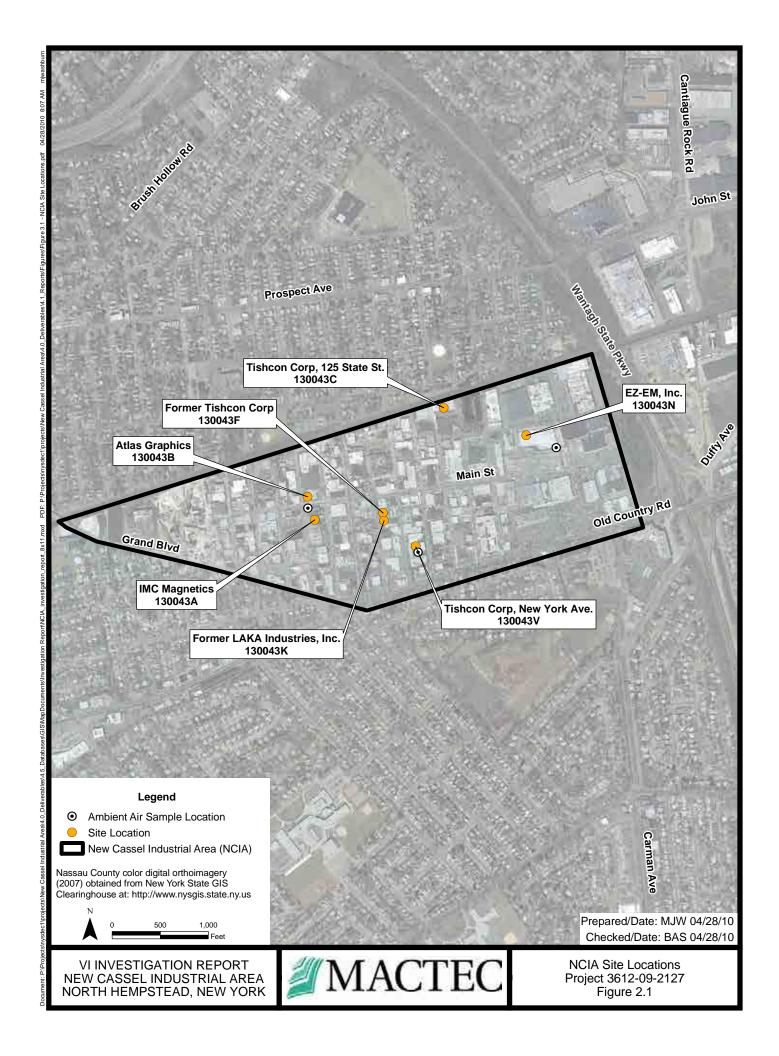
Results from this VI Investigation sampling suggest further evaluation is necessary.

#### 5.0 REFERENCES

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- New York State Department of Environmental Conservation (NYSDEC), 2009. WA Issuance/Notice to Proceed D004434-31, New Cassel Industrial Area Vapor Intrusion Investigation. July 1, 2009.
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# **FIGURES**





VI INVESTIGATION REPORT NEW CASSEL INDUSTRIAL AREA NORTH HEMPSTEAD, NEW YORK



VI Sample Locations Former Tishcon Corp (130043F) Project 3612-09-2127 Figure 3.4

Figure 3.5

NORTH HEMPSTEAD, NEW YORK

VI INVESTIGATION REPORT NEW CASSEL INDUSTRIAL AREA NORTH HEMPSTEAD, NEW YORK



VI Sample Locations Tishcon Corp, New York Ave. (130043V) Project 3612-09-2127 Figure 3.7

VI INVESTIGATION REPORT NEW CASSEL INDUSTRIAL AREA NORTH HEMPSTEAD, NEW YORK



Soil Boring Locations Tishcon Corp, New York Ave. (130043V) Project 3612-09-2127 Figure 3.8

# **TABLES**

**Table 2.1 - Property Address Summary** 

| Property Address                        | Site Name                   | NYSDEC Site Number | Structure ID Number |
|-----------------------------------------|-----------------------------|--------------------|---------------------|
| 570 Main Street, New Cassel, NY         | IMC Magnetics               | Site No. 130043A   | Structure A         |
| 567 Main Street, New Cassel, NY         | Atlas Graphics              | Site No. 130043B   | Structure B         |
| 125 State Street, Westbury, NY          | Tishcon Corp                | Site No. 130043C   | Structure C         |
| 68 Kinkel Street, Westbury, NY          | Former Tishcon Corp         | Site No. 130043F   | Structure F         |
| 62 Kinkel Street, Westbury, NY          | Former Laka Industries, Inc | Site No. 130043K   | Structure K         |
| 750 Summa Avenue, North Hempstead, NY   | EZ-EM, Inc                  | Site No. 130043N   | Structure N         |
| 29 New York Avenue, North Hempstead, NY | Tishcon Corp (New York Ave) | Site No. 130043V   | Structure V         |

NCIA = New Cassel Industiral Area

NYSDEC = New York State Department of Environmental Conservation

NY = New York No. = number

> Created by: RCM 04/14/2011 Checked by: BAS 0416/2011

Table 3.1 - IMC Magnetics (130043A) - 2010 Vapor Intrusion Results

| Site Name and NYSDEC Site Number      |        |           |        | IN             | IC Magnet | ics (130043 <i>A</i> | <b>A</b> ) |           |        |           |
|---------------------------------------|--------|-----------|--------|----------------|-----------|----------------------|------------|-----------|--------|-----------|
| Site                                  |        |           |        |                | Struc     | ture A               |            |           |        |           |
| Location ID                           | A-S    | S-01      | A-S    | S-02           | A-S       | S-03                 | A-I        | A-01      | A-I    | A-02      |
| Sample Date                           | 2/15   | /2010     | 2/15   | /2010          | 2/15/     | 2010                 | 2/15/      | 2010      | 2/15/  | 2010      |
| Sample ID                             | 130043 | A-SS-01   | 130043 | A-SS-02        | 130043    | A-SS-03              | 130043.    | A-IA-01   | 130043 | A-IA-02   |
| QC Code                               | F      | FS .      | F      | ² S | F         | S                    | F          | S         | F      | S         |
| Parameter Name                        | Result | Qualifier | Result | Qualifier      | Result    | Qualifier            | Result     | Qualifier | Result | Qualifier |
| 1,1,1-Trichloroethane                 | 240    |           | 2.8    |                | 95        |                      | 0.83       | UJ        | 0.83   | UJ        |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 11     |           | 2.3    |                | 470       | EJ                   | 1.2        | U         | 1.8    |           |
| 1,1,2-Trichloroethane                 | 1.9    | J         | 0.83   | U              | 0.83      | U                    | 0.83       | UJ        | 0.83   | UJ        |
| 1,1-Dichloroethane                    | 19     |           | 0.62   | U              | 0.62      | U                    | 0.62       | U         | 0.62   | U         |
| 1,2,4-Trimethylbenzene                | 2.9    | J         | 1.3    | J              | 6.7       | J                    | 19         | J         | 7      | J         |
| 1,3,5-Trimethylbenzene                | 0.9    | J         | 0.75   | UJ             | 2.3       | J                    | 4.6        | J         | 7.3    | J         |
| 2-Butanone                            | 13     |           | 2.9    |                | 4         |                      | 0.9        |           | 5.2    |           |
| 2-Hexanone                            | 1.2    | UJ        | 1.2    | U              | 1.1       | J                    | 1.2        | UJ        | 1.2    | UJ        |
| 2-Propanol                            | 260    |           | 40     |                | 53        |                      | 120        |           | 0.37   | U         |
| 4-Ethyltoluene                        | 0.75   | UJ        | 0.75   | U              | 1.3       |                      | 7.8        | J         | 13     | J         |
| 4-Methyl-2-pentanone                  | 4.9    |           | 1      |                | 1         | J                    | 3.4        | J         | 3.2    | J         |
| Acetone                               | 170    |           | 28     |                | 46        |                      | 39         |           | 49     |           |
| Benzene                               | 17     |           | 0.62   |                | 4.3       |                      | 8.4        | J         | 11     |           |
| Bromodichloromethane                  | 1      | UJ        | 1      | U              | 1         | U                    | 1          | UJ        | 3.7    | J         |
| Carbon disulfide                      | 6.8    |           | 0.98   |                | 1.3       |                      | 0.47       | U         | 0.47   | U         |
| Carbon tetrachloride                  | 0.96   | UJ        | 0.96   | U              | 0.96      | U                    | 0.45       | J         | 0.51   | J         |
| Chloroform                            | 210    |           | 29     |                | 10        |                      | 1.1        |           | 88     |           |
| Chloromethane                         | 0.31   | U         | 0.31   | U              | 0.31      | U                    | 0.99       |           | 1.5    |           |
| Cis-1,2-Dichloroethene                | 2800   | EJ        | 0.6    | U              | 0.6       | U                    | 1.6        |           | 0.6    | U         |
| Cyclohexane                           | 23     |           | 4.2    |                | 0.52      | U                    | 14         |           | 18     |           |
| Dichlorodifluoromethane               | 0.75   |           | 3.8    |                | 2.3       |                      | 2.4        |           | 2.3    |           |
| Ethyl acetate                         | 0.92   | U         | 0.92   | U              | 0.92      | U                    | 0.92       | U         | 0.92   | U         |
| Ethyl benzene                         | 8.3    |           | 0.62   | J              | 1.8       |                      | 12         | J         | 11     | J         |
| Heptane                               | 0.62   | UJ        | 0.62   | U              | 3.6       |                      | 13         |           | 27     |           |
| Hexane                                | 5.9    |           | 1      |                | 3.7       |                      | 21         |           | 29     |           |
| Isooctane                             | 2.5    | J         | 0.71   | U              | 0.47      | J                    | 16         |           | 11     |           |
| Methylene chloride                    | 71     |           | 0.53   | U              | 0.53      | U                    | 3.5        |           | 1.2    |           |
| Styrene                               | 1.6    | J         | 0.65   | U              | 0.69      |                      | 0.65       |           | 0.65   |           |
| Tetrachloroethene                     | 400000 |           | 4600   |                | 42000     |                      | 74         | J         | 220    | J         |
| Toluene                               | 19     |           | 3      |                | 7.7       |                      | 41         |           | 47     |           |
| trans-1,2-Dichloroethene              | 420    |           | 0.6    | U              | 0.6       | U                    | 0.6        |           | 0.6    |           |
| Trichloroethene                       | 4400   | -         | 81     |                | 19        |                      | 5.6        | J         | 1.6    | J         |
| Trichlorofluoromethane                | 0.86   | U         | 1.4    |                | 2.1       |                      | 1.1        |           | 1      |           |
| Xylene, m/p                           | 32     |           | 1.8    |                | 3.4       |                      | 16         |           | 35     |           |
| Xylene, o                             | 8      | J         | 0.62   | J              | 1.5       |                      | 13         | J         | 10     | J         |

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter ( $\mu g/m^3$ )

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: SV = Soil Vapor; IA = Indoor Air

OC Code:

FS = Field Sample

## Qualifiers:

- U = Not detected at a concentration greater than the reporting limit
- E = Detected at a concentration greater than the calibration range
- J = Estimated value

**Bold** = analyte detection

#### Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

Highlighted results within the guidance criteria for Mitigate, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for Monitor, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006)

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

4.1 Table 3.1 xls Page 1 of 1 Checked by: LJB 04/28/2010

Table 3.2 - Atlas Graphics (130043B) - 2010 Vapor Intrusion Results

| Site Name and NYSDEC Site Number      |        |           |        | Atl       | las Graphi | ics (130043 | 3B)    |           |        |           |
|---------------------------------------|--------|-----------|--------|-----------|------------|-------------|--------|-----------|--------|-----------|
| Site                                  |        |           |        | -         |            | ture B      |        |           |        |           |
| Location ID                           | B-S    | S-01      | B-S    | S-02      |            | S-03        | R-L    | A-01      | R-I    | A-02      |
| Sample Date                           |        | 2010      |        | /2010     |            | 2010        |        | /2010     | 2/16/  |           |
| Sample ID                             | 130043 |           |        | B-SS-02   |            | B-SS-03     |        | B-IA-01   | 130043 |           |
| QC Code                               |        | S         |        | FS 55 52  |            | S           |        | S         | F      |           |
| Parameter Name                        | Result | Qualifier | Result | Qualifier | Result     | Qualifier   | Result | Qualifier | Result | Qualifier |
| 1.1.1-Trichloroethane                 | 180    | _         | 240    | <b>C</b>  | 160        | _           | 0.83   | `         | 0.83   | `         |
| 1.1.2-Trichloro-1.2.2-Trifluoroethane | 35     |           | 3.2    |           | 44         |             | 1.2    |           | 1.2    |           |
| 1.1.2-Trichloroethane                 | 0.83   | U         | 3.8    |           | 1.1        |             | 0.83   |           | 0.83   |           |
| 1.1-Dichloroethane                    | 56     |           | 3.5    |           | 22         |             | 0.62   |           | 0.62   |           |
| 1.1-Dichloroethene                    | 0.6    | U         | 2.5    |           | 0.6        | U           | 0.6    | U         | 0.6    | U         |
| 1,2,4-Trimethylbenzene                | 1.8    | J         | 40     | J         | 3.1        | J           | 0.8    | J         | 1.4    | J         |
| 1,3,5-Trimethylbenzene                | 0.75   | UJ        | 12     | J         | 0.75       | J           | 0.75   | UJ        | 0.5    | J         |
| 1,4-Dioxane                           | 1.1    | U         | 17     |           | 1.1        |             | 1.1    | U         | 1.1    | U         |
| 2-Butanone                            | 6.6    | J         | 7.8    | J         | 5.7        | J           | 1.5    |           | 0.9    | U         |
| 2-Hexanone                            | 1.3    |           | 1.2    | UJ        | 1.2        | UJ          | 1.2    | UJ        | 1.2    | UJ        |
| 2-Propanol                            | 71     | EJ        | 230    | J         | 60         | EJ          | 38     |           | 110    |           |
| 4-Ethyltoluene                        | 0.55   | J         | 9.7    | J         | 1.3        | J           | 0.5    | J         | 1      | J         |
| 4-Methyl-2-pentanone                  | 2.1    |           | 3.2    | J         | 1.2        | UJ          | 1.2    | UJ        | 1.2    | UJ        |
| Acetone                               | 110    | EJ        | 610    |           | 82         | EJ          | 180    |           | 360    |           |
| Benzene                               | 1.5    |           | 5      |           | 1.8        |             | 1.3    |           | 2.1    |           |
| Carbon disulfide                      | 10     |           | 10     |           | 3.2        |             | 0.47   |           | 0.47   |           |
| Chloroform                            | 4.6    |           | 31     |           | 17         |             | 0.74   | U         | 0.74   | U         |
| Chloromethane                         | 0.31   | U         | 0.31   | U         | 0.31       | U           | 0.73   |           | 0.59   |           |
| Cis-1,2-Dichloroethene                | 19     |           | 26     |           | 8.5        |             | 0.6    | U         | 0.6    | U         |
| Cyclohexane                           | 0.52   | U         | 0.52   | U         | 0.52       | U           | 0.52   | U         | 3.3    |           |
| Dichlorodifluoromethane               | 2.3    |           | 2.6    |           | 2.8        |             | 2      |           | 2      |           |
| Ethyl acetate                         | 0.92   | U         | 0.92   | U         | 0.92       | -           | 0.92   |           | 1.4    |           |
| Ethyl benzene                         | 22     |           | 270    |           | 180        |             | 1300   | EJ        | 2300   | EJ        |
| Heptane                               | 0.62   | U         | 0.62   | U         | 0.62       |             | 1.2    |           | 2.5    |           |
| Hexane                                | 0.54   |           | 0.54   |           | 0.54       |             | 2.1    |           | 4.9    |           |
| Isooctane                             | 0.71   |           | 0.71   |           | 0.71       |             | 1.1    |           | 2,2    |           |
| Methylene chloride                    | 0.53   | U         | 0.53   | U         | 0.53       |             | 0.42   | J         | 0.42   | J         |
| Styrene                               | 2.6    |           | 0.65   | UJ        | 0.65       |             | 0.65   |           | 0.65   |           |
| Tetrachloroethene                     | 4200   |           | 1400   |           | 1700       | J           | 1.9    |           | 1.6    |           |
| Toluene                               | 17     |           | 76     |           | 46         |             | 600    |           | 1300   |           |
| trans-1,2-Dichloroethene              | 0.6    | U         | 5.1    |           | 0.6        | U           | 0.6    | U         | 0.6    | U         |
| Trichloroethene                       | 16000  |           | 31000  |           | 4100       |             | 27     |           | 28     |           |
| Trichlorofluoromethane                | 3.5    |           | 53     |           | 42         |             | 0.97   |           | 0.97   |           |
| Xylene, m/p                           | 92     |           | 1200   |           | 740        |             | 4600   | EJ        | 6900   |           |
| Xylene, o                             | 10     |           | 150    |           | 80         |             | 430    |           | 900    | J         |
| Notes:                                |        |           |        |           |            |             |        |           |        |           |

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter ( $\mu g/m^3$ )

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air

QC Code:

FS = Field Sample

#### Qualifiers:

- U = Not detected at a concentration greater than the reporting limit
- E = Detected at a concentration greater than the calibration range
- J = Estimated value

Bold = analyte detection

# Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

#### Criteria:

Highlighted results within the guidance criteria for <u>Mitigate</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for Monitor, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

4.1 Table 3.2.xls Page 1 of 1 Created by: BAS 04/27/2010 Checked by: LJB 04/28/2010

Table 3.3 Tishcon Corp. (130043C) - 2011 Vapor Intrusion Results

| Site Name and NYSDEC Site Number      |                  |                  | Tis              | hcon Corp. (130043 | BC)              |                  |                  |  |
|---------------------------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|--|
| Site                                  |                  |                  |                  | Structure C        |                  |                  |                  |  |
| Location ID                           | C-SS-01          | C-SS-01          | C-SS-02          | C-SS-03            | C-IA-01          | C-IA-02          | C-IA-03          |  |
| Sample Date                           | 2/1/2011         | 2/1/2011         | 2/1/2011         | 2/1/2011           | 2/1/2011         | 2/1/2011         | 2/1/2011         |  |
| Sample ID                             | 130043C-SS-01    | 130043C-SS-01 D  | 130043C-SS-02    | 130043C-SS-03      | 130043C-IA-01    | 130043C-IA-02    | 130043C-IA-03    |  |
| QC Code                               | FS               | FD               | FS               | FS                 | FS               | FS               | FS               |  |
| Parameter Name                        | Result Qualifier | Result Qualifier | Result Qualifier | Result Qualifier   | Result Qualifier | Result Qualifier | Result Qualifier |  |
| Tetrachloroethene                     | 9,800 J          | <b>7,500</b> J   | 860              | 4,600              | 2                | 2                | 2                |  |
| Trichloroethene                       | 17               | 20               | 3.3              | 22                 | 0.55             | 0.27             | 0.38             |  |
| 1,1,1-Trichloroethane                 | 3,300 J          | 2,300            | 440              | 850                | 1 J              | <b>1</b> J       | 1                |  |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1 J              | 1 J              | 0.86 J           | 1.2 U              | 1.2 U            | 1.2 U            | 1.2 U            |  |
| 1,1-Dichloroethane                    | 38               | 41               | 18               | 18                 | 0.62 U           | 0.62 U           | 0.62 U           |  |
| 1,1-Dichloroethene                    | 2.2              | 2.4              | 0.6              | 0.6 U              | 0.6 U            | 0.6 U            | 0.6 U            |  |
| 1,2,4-Trimethylbenzene                | 1.3              | 1                | 1.4              | 0.65 J             | 1.7              | 1.3              | 1.3              |  |
| 1,2-Dichloroethane                    | 0.62 U           | 0.62 U           | 1.5              | 0.62 U             | 0.62 U           | 0.62 U           | 0.62 U           |  |
| 1,3,5-Trimethylbenzene                | 0.75 U           | 0.75 U           | 0.75 U           | 0.75 U             | 0.75 U           | 0.75 U           | 0.65 J           |  |
| 1,4-Dichlorobenzene                   | 0.92 U           | 0.92 U           | <b>0.86</b> J    | 0.92 U             | 0.92 U           | 0.92 U           | 0.92 U           |  |
| 1,4-Dioxane                           | <b>34</b> J      | <b>37</b> J      | 1.1 UJ           | 1.1 UJ             | 1.1 UJ           | 1.1 UJ           | 1.1 UJ           |  |
| 2-Butanone                            | 2.8              | 2.8              | 11               | 5.2                | 17               | 31               | 47               |  |
| 2-Hexanone                            | 1.2 UJ           | 1.2 UJ           | <b>0.46</b> J    | 1.2 UJ             | 1.2 UJ           | 1.2 UJ           | 1.2 UJ           |  |
| 2-Propanol                            | 44               | 52               | 130              | 40                 | 2.7              | 4.5              | 3.8              |  |
| 4-Ethyltoluene                        | 0.75 U           | 0.75 U           | 0.75 U           | <b>0.55</b> J      | 0.75 U           | 0.75 U           | 0.8              |  |
| Acetone                               | 29               | 23               | 42               | 59                 | 22               | 51               | 63               |  |
| Benzene                               | 0.62             | <b>0.45</b> J    | 1.1              | 1                  | 1.2              | 1.1              | 1.2              |  |
| Carbon disulfide                      | 2.2              | 2.2              | 2.1              | 1.9                | 0.47 U           | 0.47 U           | 0.47 U           |  |
| Carbon tetrachloride                  | 0.96 U           | 0.96 U           | 0.96 U           | 0.96 U             | 0.64             | 0.64             | 0.51             |  |
| Chloroform                            | 2.2              | 2                | 1.1              | 2.1                | 0.74 U           | 0.74 U           | 0.74 U           |  |
| Chloromethane                         | 0.31 U           | 0.31 U           | 0.31 U           | 0.31 U             | 0.31 U           | 0.31 U           | 0.94             |  |
| Cis-1,2-Dichloroethene                | 0.6 U            | 0.6 U            | 0.6 U            | <b>0.48</b> J      | 0.6 U            | 0.6 U            | 0.6 U            |  |
| Cyclohexane                           | <b>0.49</b> J    | <b>0.49</b> J    | 0.94             | 0.52 U             | 0.56             | 0.52 U           | 0.52 U           |  |
| Dichlorodifluoromethane               | 3.7              | 3.7              | 2.9              | 0.75 U             | 0.75 U           | 2.8              | 2.8              |  |
| Ethyl benzene                         | 0.53 J           | 0.66 U           | 1.4              | 0.62 J             | 0.71             | 0.62 J           | 0.62 J           |  |
| Heptane                               | 1                | 1                | 2.9              | 1.8                | 0.92             | 0.54 J           | 0.79             |  |
| Hexane                                | 0.54 U           | 0.54 U           | 3.8              | 1                  | 3.5              | 7.5              | 8.6              |  |
| Methylene chloride                    | 1.3              | 1.2              | 1.8              | 0.56               | 1.3              | 5.5              | 4.4              |  |
| Styrene                               | 0.48 J           | 0.52 J           | 1.1              | 0.91               | 0.43 J           | 0.69             | 0.56 J           |  |
| Tetrahydrofuran                       | 0.45 UJ          | 0.45 UJ          | 2.4 J            | 0.45 UJ            | 3.1 J            | 16               | 15               |  |
| Toluene                               | 4.5              | 3.9              | 9.2              | 6                  | 3.4              | 3.7              | 3.4              |  |
| Trichlorofluoromethane                | 3.7              | 3.7              | 2.9              | 2.8                | 0.86 U           | 2.6              | 2.5              |  |
| Xylene, m/p                           | 1.4              | 1.3              | 3.4              | 1.9                | 1.4              | 1.4              | 1.3              |  |
| Xylene, o                             | <b>0.44</b> J    | 0.66 U           | 1.1              | <b>0.44</b> J      | 0.66             | <b>0.57</b> J    | 0.62 J           |  |

NYSDEC = New York State Department of Environmental Conservation

Results presented in microgram per cubic meter  $(\mu g/M^3)$ 

Samples analyzed for VOCs by USEPA Method TO-15.

 $VOC = volatile \ organic \ compound$ 

 $Location\ Name:\ AA = Ambient\ Air;\ SV = Soil\ Vapor;\ IA = Indoor\ Air$ 

QC Code:

 $FS = Field \ Sample$ 

Qualifiers:

 $\boldsymbol{U} = \boldsymbol{Not}$  detected at a concentration greater than the reporting limit

J = Estimated value

 $\boldsymbol{Bold} = analyte \; detection$ 

Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

# Criteria:

Highlighted results within the guidance criteria for <u>Mitigate</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for **Monitor**, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

4.1 Table 3.3.xls Created By: RCM 4/14/2011
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Table 3.4 - Former Tishcon Corp. (130043F) - 2010 Vapor Intrusion Results

| Site Name and NYSDEC Site Number |        |           |        | Forme     | r Tishcon | Corp (130 | 0043F) |           |        |           |
|----------------------------------|--------|-----------|--------|-----------|-----------|-----------|--------|-----------|--------|-----------|
| Site                             |        |           |        |           | Struc     | ture F    |        |           |        |           |
| Location ID                      | F-S    | S-01      | F-S    | S-02      | F-S       | S-03      | F-I    | A-01      | F-IA   | A-02      |
| Sample Date                      | 2/16/  | 2010      | 2/16/  | /2010     | 2/16/     | 2010      | 2/16/  | /2010     | 2/16/  | 2010      |
| Sample ID                        | 130043 | F-SS-01   | 130043 | F-SS-02   | 130043    | F-SS-03   | 130043 | F-IA-01   | 130043 | F-IA-02   |
| QC Code                          | F      | S         | F      | S         | FS        |           | FS     |           | FS     |           |
| Parameter Name                   | Result | Qualifier | Result | Qualifier | Result    | Qualifier | Result | Qualifier | Result | Qualifier |
| 1,1,1-Trichloroethane            | 60     |           | 9.9    |           | 110       |           | 0.83   | U         | 0.83   | UJ        |
| 1,2,4-Trimethylbenzene           | 1      | J         | 7.4    | J         | 1.2       |           | 7.4    | J         | 2.7    | J         |
| 1,3,5-Trimethylbenzene           | 0.75   | UJ        | 2.7    | J         | 0.75      | UJ        | 1.6    | J         | 1.2    | J         |
| 1,4-Dioxane                      | 0.4    | J         | 111    | U         | 111       | U         |        | U         | 1.1    |           |
| 2-Butanone                       | 4.7    |           | 12     |           | 1.7       |           | 8.3    |           | 0.9    | U         |
| 2-Hexanone                       | 1.2    | _         | 1.4    | J         | 1.2       | U         | 1.2    | UJ        | 1.2    |           |
| 2-Propanol                       | 66     |           | 59     |           | 25        |           | 5.5    |           | 0.37   |           |
| 4-Ethyltoluene                   | 0.75   |           | 1.8    |           | 0.75      |           | 3.4    |           | 1.7    |           |
| 4-Methyl-2-pentanone             | 0.96   |           | 3.1    | J         | 0.75      | J         | 2      | J         | 1.6    |           |
| Acetone                          | 63     | EJ        | 300    |           | 43        |           |        | EJ        | 24     |           |
| Benzene                          | 0.78   |           | 3.2    |           | 0.42      | J         | 1.4    |           | 1.6    |           |
| Carbon disulfide                 | 1.2    |           | 5.6    |           | 0.57      |           | 0.47   | _         | 0.6    |           |
| Carbon tetrachloride             | 0.96   |           | 0.96   | U         | 0.96      |           | 0.51   |           | 0.45   |           |
| Chloroform                       | 0.74   | _         | 0.94   |           | 0.74      |           | 0.74   | U         | 0.74   |           |
| Chloromethane                    |        | U         | 0.00   | U         | 0.31      |           | 0.86   |           | 0.76   | -         |
| Cyclohexane                      | 0.52   | U         | 14     |           | 0.52      |           | 0.52   | U         | 36     |           |
| Dichlorodifluoromethane          | 5.7    |           | 2.4    |           | 0.75      |           | 2.3    |           | 2.2    |           |
| Ethyl acetate                    | 0.92   | U         | 0.92   | -         | 0.92      | U         | 0.92   | _         | 26     |           |
| Ethyl benzene                    | 1.7    |           | 2.5    | J         | 1.1       |           | 7.3    | J         | 3.8    |           |
| Heptane                          | 0.62   | _         | 8.3    |           | 0.46      |           | 1.7    |           | 3.1    |           |
| Hexane                           | 0.54   | _         | 7.5    |           | 0.54      |           | 0.54   | _         | 16     |           |
| Isooctane                        | 0.71   | _         | 0.71   |           | 0.71      |           | 0.71   |           | 0.57   |           |
| Methylene chloride               | 0.53   |           | 0.53   |           | 0.53      |           | 0.42   |           | 1.6    |           |
| Styrene                          | 0.61   | J         | 0.65   |           | 0.65      | U         | 0.65   | UJ        | 1.3    |           |
| Tetrachloroethene                | 280    |           | 110    | J         | 290       |           | 1.7    | J         | 1.9    |           |
| Toluene                          | 2.8    |           | 12     |           | 1.4       |           | 7.2    | J         | 71     | -         |
| Trichloroethene                  | 0.6    | J         | 4.2    |           | 0.82      |           | 3.2    |           | 1.8    |           |
| Trichlorofluoromethane           | 5.7    |           | 2.3    |           | 5.5       |           | 1.2    |           | 1      |           |
| Xylene, m/p                      | 5.4    |           | 14     |           | 3         |           | 5.5    |           | 9.7    |           |
| Xylene, o                        | 0.88   |           | 3.8    | J         | 0.53      | J         | 2.6    | J         | 2.7    | J         |

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter ( $\mu g/m^3$ )

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air

QC Code:

FS = Field Sample

#### Qualifiers:

- $\boldsymbol{U} = \boldsymbol{Not}$  detected at a concentration greater than the reporting limit
- $E = Detected \ at \ a \ concentration \ greater \ than \ the \ calibration \ range$
- J = Estimated value

**Bold** = analyte detection

#### Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

#### Criteria

Highlighted results within the criteria for Monitor, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

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Table 3.5 - Former LAKA Industries, Inc. (130043K) - 2010 Vapor Intrusion Results

| Site<br>Location ID<br>Sample Date<br>Sample ID | K-S    | C 01           |             |           | C44     |           |        |           |         |           |  |  |  |
|-------------------------------------------------|--------|----------------|-------------|-----------|---------|-----------|--------|-----------|---------|-----------|--|--|--|
| Sample Date                                     |        | C 01           | Structure K |           |         |           |        |           |         |           |  |  |  |
|                                                 | 2/16   | 3-01           | K-S         | S-02      | K-S     | S-03      | K-L    | A-01      | K-I     | A-02      |  |  |  |
|                                                 |        | /2010          | 2/16/       | 2010      | 2/16/   | 2010      | 2/16/  | /2010     | 2/16/   | 2010      |  |  |  |
|                                                 |        | K-SS-01        | 130043      | K-SS-02   | 130043I | K-SS-03   | 130043 | K-IA-01   | 1300431 | K-IA-02   |  |  |  |
| QC Code                                         |        | ⁷ S | F           | S         | FS      |           | FS     |           | FS      |           |  |  |  |
| Parameter Name                                  | Result | Qualifier      | Result      | Qualifier | Result  | Qualifier | Result | Qualifier | Result  | Qualifier |  |  |  |
| 1,1,1-Trichloroethane                           | 77     |                | 36          |           | 2100    |           | 0.83   | U         | 0.83    | U         |  |  |  |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane           | 1.2    | U              | 1.2         | U         | 5       |           | 1.2    | U         | 1.2     | U         |  |  |  |
| 1,1-Dichloroethane                              | 1.9    |                | 1.2         |           | 35      |           | 0.62   | U         | 0.62    | U         |  |  |  |
| 1,2,4-Trimethylbenzene                          | 2.7    | J              | 0.75        | UJ        | 54      | J         | 1.3    |           | 1.8     |           |  |  |  |
| 1,3,5-Trimethylbenzene                          | 0.8    | J              | 0.75        | UJ        | 21      | J         | 0.75   | U         | 0.55    | J         |  |  |  |
| 1,4-Dioxane                                     | 1.1    | U              | 1.1         | U         | 6       | J         | 1.1    | U         | 1.1     | U         |  |  |  |
| 2-Butanone                                      | 6.6    | J              | 2           |           | 57      |           | 4.1    |           | 2.3     |           |  |  |  |
| 2-Hexanone                                      | 1.2    | UJ             | 1.2         | U         | 26      | J         | 1.2    | U         | 1.2     | U         |  |  |  |
| 2-Propanol                                      | 32     |                | 39          |           | 0.37    | UJ        | 58     | EJ        | 51      | EJ        |  |  |  |
| 4-Ethyltoluene                                  | 0.95   | J              | 0.75        | U         | 15      | J         | 0.75   | U         | 0.8     |           |  |  |  |
| 4-Methyl-2-pentanone                            | 1.2    | J              | 1.2         | U         | 12      | J         | 1.2    | U         | 1.2     | U         |  |  |  |
| Acetone                                         | 96     |                | 32          |           | 200     | EJ        |        | EJ        | 74      | EJ        |  |  |  |
| Benzene                                         | 4.3    |                | 0.58        |           | 67      |           | 1.2    |           | 1.8     |           |  |  |  |
| Carbon disulfide                                | 14     |                | 1.5         |           | 11      |           | 0.47   | U         | 0.47    | U         |  |  |  |
| Carbon tetrachloride                            | 0.7    | J              | 0.96        | U         | 0.96    | UJ        | 0.51   | J         | 0.51    | J         |  |  |  |
| Chloroform                                      | 20     |                | 8.9         |           | 23      |           | 0.74   | U         | 0.74    | U         |  |  |  |
| Chloromethane                                   | 0.31   | U              | 0.31        | U         | 0.31    | U         | 0.86   |           | 0.8     |           |  |  |  |
| Cis-1,2-Dichloroethene                          | 1.3    |                | 2.8         |           | 120     |           | 0.6    | U         | 0.6     | U         |  |  |  |
| Cyclohexane                                     | 0.52   |                | 0.52        | U         | 16      |           | 0.52   | U         | 0.52    | U         |  |  |  |
| Dichlorodifluoromethane                         | 0.75   | U              | 9.4         |           | 0.75    | U         | 2.4    |           | 2.3     |           |  |  |  |
| Ethyl benzene                                   | 58     |                | 4.3         |           | 19      | J         | 1.1    |           | 2.1     |           |  |  |  |
| Heptane                                         | 4      |                | 0.62        |           | 66      |           | 1.9    |           | 1.2     |           |  |  |  |
| Hexane                                          | 4.1    |                | 0.54        | U         | 56      |           | 0.54   | U         | 0.54    | U         |  |  |  |
| Isooctane                                       | 0.71   |                | 0.71        |           | 0.71    |           | 0.71   | U         | 1.1     |           |  |  |  |
| Methylene chloride                              | 0.53   | U              | 0.53        |           | 0.53    | U         | 0.46   | J         | 0.39    | J         |  |  |  |
| Styrene                                         | 3.6    | J              | 0.65        | U         | 0.65    | UJ        | 0.48   | J         | 1.4     |           |  |  |  |
| Tetrachloroethene                               | 280    |                | 650         |           | 1500    |           | 1.7    |           | 5.4     |           |  |  |  |
| Toluene                                         | 46     |                | 5.1         |           | 36      | J         | 12     | EJ        | 18      | EJ        |  |  |  |
| Trichloroethene                                 | 930    |                | 490         |           | 10000   |           | 0.87   |           | 0.6     |           |  |  |  |
| Trichlorofluoromethane                          | 4.4    |                | 37          |           | 10      |           | 1.1    |           | 1.7     |           |  |  |  |
| Xylene, m/p                                     | 220    |                | 15          |           | 50      |           | 3.3    |           | 7.1     |           |  |  |  |
| Xylene, o                                       | 17     |                | 1.6         |           | 17      | J         | 1.1    |           | 2.2     |           |  |  |  |

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter (µg/m³)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air QC Code:

FS = Field Sample

# Qualifiers:

U = Not detected at a concentration greater than the reporting limit

 $E = Detected \ at \ a \ concentration \ greater \ than \ the \ calibration \ range$ 

J = Estimated value

Bold = analyte detection

#### Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

#### Criteria:

Highlighted results within the guidance criteria for <u>Mitigate</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for Monitor, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

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Table 3.6 - Former EZ-EM, Inc. (130043N) - 2010 Vapor Intrusion Results

| Site Name and NYSDEC Site Number      |         | EZ-EM, Inc. (130043N) |         |           |         |           |        |           |         |           |  |  |
|---------------------------------------|---------|-----------------------|---------|-----------|---------|-----------|--------|-----------|---------|-----------|--|--|
| Site                                  |         |                       |         |           | Struct  | ture N    |        |           |         |           |  |  |
| Location ID                           | N-S     | S-01                  | N-S     | S-02      | N-S     | S-03      | N-I    | A-01      | N-IA    | A-02      |  |  |
| Sample Date                           | 2/16/   | /2010                 | 2/16/   | 2010      | 2/16/   | 2010      | 2/16/  | 2010      | 2/16/   | 2010      |  |  |
| Sample ID                             | 1300431 | N-SS-01               | 1300431 | N-SS-02   | 1300431 | N-SS-03   | 130043 | N-IA-01   | 1300431 | N-IA-02   |  |  |
| QC Code                               | F       | S                     | F       | S         | F       | S         | F      | S         | F       | S         |  |  |
| Parameter Name                        | Result  | Qualifier             | Result  | Qualifier | Result  | Qualifier | Result | Qualifier | Result  | Qualifier |  |  |
| 1,1,1-Trichloroethane                 | 390     |                       | 53000   |           | 640     |           | 1.2    |           | 1.2     |           |  |  |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.9     |                       | 26      |           | 3       |           | 1.2    |           | 1.2     |           |  |  |
| 1,1-Dichloroethane                    | 2.1     |                       | 10      |           | 0.78    |           | 0.62   | U         | 0.62    | U         |  |  |
| 1,1-Dichloroethene                    | 0.6     | U                     | 32      |           | 0.6     | U         | 0.6    | U         | 0.6     | U         |  |  |
| 1,2,4-Trimethylbenzene                | 2.1     | J                     | 660     | EJ        | 3.9     | J         | 1      |           | 0.75    | U         |  |  |
| 1,3,5-Trimethylbenzene                | 1       | J                     | 380     | EJ        | 1.7     | J         | 0.75   | U         | 0.75    | U         |  |  |
| 1,4-Dioxane                           | 1.1     | U                     | 20      |           | 1.1     | U         | 1.1    | U         | 1.1     | U         |  |  |
| 2-Butanone                            | 9.6     |                       | 140     | EJ        | 3.4     |           | 1.6    |           | 0.78    |           |  |  |
| 2-Hexanone                            | 2.4     | J                     | 31      |           | 1.3     |           | 1.2    | U         | 1.2     | U         |  |  |
| 2-Propanol                            | 64      |                       | 87      | J         | 68      | J         | 2      |           | 2       |           |  |  |
| 4-Ethyltoluene                        | 0.75    | J                     | 280     | EJ        | 1.3     |           | 0.75   | U         | 0.75    | U         |  |  |
| 4-Methyl-2-pentanone                  | 1.3     | J                     | 17      |           | 0.75    | J         | 1.2    | U         | 1.2     | U         |  |  |
| Acetone                               | 110     |                       | 1100    | EJ        | 35      |           | 14     | EJ        | 12      | EJ        |  |  |
| Benzene                               | 2.6     |                       | 9.4     |           | 0.65    |           | 0.81   |           | 0.78    |           |  |  |
| Carbon disulfide                      | 6.2     |                       | 15      |           | 1.9     |           | 0.47   | U         | 0.47    | U         |  |  |
| Carbon tetrachloride                  | 0.96    | U                     | 0.96    | UJ        | 0.96    | U         | 0.58   | J         | 0.7     | J         |  |  |
| Chlorobenzene                         | 0.7     | UJ                    | 0.51    | J         | 0.7     | U         | 0.7    | U         | 0.7     | U         |  |  |
| Chloroform                            | 2.8     |                       | 15      |           | 0.69    | J         | 0.74   | U         | 0.74    | U         |  |  |
| Chloromethane                         | 0.31    | U                     | 0.31    | U         | 0.31    | U         | 1      |           | 0.78    |           |  |  |
| Cis-1,2-Dichloroethene                | 2       |                       | 0.64    |           | 0.6     | U         | 0.6    | U         | 0.6     | U         |  |  |
| Cyclohexane                           | 3.3     |                       | 0.52    | UJ        | 0.52    | U         | 0.52   | U         | 0.52    | U         |  |  |
| Dichlorodifluoromethane               | 2       |                       | 0.75    | U         | 0.75    | U         | 2.3    |           | 2.3     |           |  |  |
| Ethyl acetate                         | 0.92    | U                     | 0.73    | J         | 0.92    | U         | 0.92   | U         | 0.92    | U         |  |  |
| Ethyl benzene                         | 1.9     | J                     | 230     | EJ        | 2.8     |           | 0.66   | U         | 0.66    | U         |  |  |
| Heptane                               | 1.5     |                       | 7.3     | J         | 0.79    |           | 0.62   | U         | 0.62    | U         |  |  |
| Isooctane                             | 0.71    | U                     | 1.3     |           | 0.71    |           | 0.71   |           | 0.71    | U         |  |  |
| Methylene chloride                    | 0.53    | U                     | 0.53    | U         | 0.53    | U         | 0.53   | U         | 0.39    | J         |  |  |
| Styrene                               | 0.87    | J                     | 0.65    | UJ        | 0.65    | U         | 0.65   | U         | 0.65    | U         |  |  |
| Tetrachloroethene                     | 15000   |                       | 9400    |           | 1200    |           | 1.6    |           | 1       |           |  |  |
| Tetrahydrofuran                       | 1.7     | J                     | 50      | J         | 18      | J         | 0.45   | U         | 0.45    | U         |  |  |
| Toluene                               | 2.8     | J                     | 38      |           | 2.8     |           | 1.5    |           | 1.4     |           |  |  |
| Trichloroethene                       | 1000    |                       | 3200    | J         | 80      |           | 0.22   | U         | 0.33    |           |  |  |
| Trichlorofluoromethane                | 1.1     |                       | 0.86    | U         | 1.2     |           | 0.97   |           | 1.1     |           |  |  |
| Xylene, m/p                           | 5.7     | J                     | 1500    | EJ        | 12      |           | 0.79   | J         | 0.66    | J         |  |  |
| Xylene, o                             | 1.6     | J                     | 640     | EJ        | 3       |           | 0.66   | U         | 0.66    | U         |  |  |
| Notes:                                |         |                       |         |           |         |           |        |           |         |           |  |  |

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter (µg/m³)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air

QC Code:

FS = Field Sample

Qualifiers:

U = Not detected at a concentration greater than the reporting limit

J = Estimated value

**Bold** = analyte detection

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

### Criteria:

Highlighted results within the guidance criteria for Mitigate, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

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Table 3.7 - Tishcon Corp, New York Ave. (130043V) - 2010 Vapor Intrusion Results

| Site Name and NYSDEC Site Number      |        |           |        |           | Tishcon ( | Corp, New Y | York Ave. | (130043V)      |        |                |        |           |
|---------------------------------------|--------|-----------|--------|-----------|-----------|-------------|-----------|----------------|--------|----------------|--------|-----------|
| Site                                  |        |           |        |           |           | Struct      | ture V    |                |        |                |        |           |
| Location ID                           | V-S    | S-01      | V-S    | S-02      | V-S       | S-02        | V-S       | S-03           | V-I    | A-01           | V-IA   | A-02      |
| Sample Date                           | 2/18/  | 2010      | 2/18/  | 2010      | 2/18/     | /2010       | 2/18      | /2010          | 2/18   | /2010          | 2/18/  | /2010     |
| Sample ID                             | 130043 | V-SS-01   | 130043 | V-SS-02   | 130043V   | '-SS-02D    | 130043    | V-SS-03        | 130043 | V-IA-01        | 130043 | V-IA-02   |
| QC Code                               | F      | S         | F      | S         | F         | D           | F         | ² S | F      | ² S | F      | S         |
| Parameter Name                        | Result | Qualifier | Result | Qualifier | Result    | Qualifier   | Result    | Qualifier      | Result | Qualifier      | Result | Qualifier |
| 1,1,1-Trichloroethane                 | 5500   |           | 3800   | J         | 290       | J           | 27000     |                | 4.2    | J              | 4.7    | J         |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8.3    |           | 2.1    |           | 0.93      | J           | 12        |                | 1.2    | U              | 1.2    | U         |
| 1,1,2-Trichloroethane                 | 0.83   | U         | 0.83   |           | 0.83      | UJ          | 1.8       |                | 0.83   | UJ             | 0.83   | UJ        |
| 1,1-Dichloroethane                    | 72     |           | 79     |           | 8.2       |             | 7900      |                | 1.5    |                | 1.6    |           |
| 1,1-Dichloroethene                    | 54     |           | 780    | J         | 25        |             | 240       |                | 0.6    | U              | 0.6    | U         |
| 1,2,4-Trimethylbenzene                | 5      |           | 16     |           | 2.7       |             | _         | J              | 1      | -              | 1.3    |           |
| 1,3,5-Trimethylbenzene                | 3.7    |           | 13     |           | 1.3       |             | 4.5       |                | 0.75   |                | 0.75   |           |
| 1,4-Dichlorobenzene                   | 0.92   | U         | 0.86   |           | 1.7       |             | 0.92      |                | 1.8    | -              | 1.6    |           |
| 1,4-Dioxane                           | 7.5    |           | 27     |           | 1.1       | UJ          |           | EJ             | 1.1    |                | 1.1    |           |
| 2-Butanone                            | 2.7    |           | 4.9    |           | 4.5       |             | 2.8       |                | 4.9    |                | 4.4    |           |
| 2-Hexanone                            | 1.2    | _         | 0.92   |           | 1.2       |             | 1         | J              |        | UJ             | 1.2    |           |
| 2-Propanol                            | 95     | EJ        | 21     |           | 0.37      | UJ          | 42        |                | 28     |                | 0.37   |           |
| 4-Ethyltoluene                        | 1.1    |           | 0.75   |           | 1.6       |             | 6.6       |                | 0.55   |                | 0.55   |           |
| 4-Methyl-2-pentanone                  | 12     |           | 1000   | EJ        | 31        | J           | 13        |                | 2.6    |                | 3.6    |           |
| Acetone                               | 30     |           | 350    |           | 170       |             | 49        |                | 140    |                | 280    |           |
| Benzene                               | 1.3    |           | 1.6    |           | 1.6       |             | 2.1       |                | 1.3    | -              | 1.3    |           |
| Carbon disulfide                      | 0.79   |           | 9.2    |           | 0.98      |             | 4.1       |                | 0.47   | _              | 0.47   | -         |
| Carbon tetrachloride                  | 0.9    |           | 0.96   | -         | 0.96      |             | 0.96      |                | 0.51   |                | 0.51   |           |
| Chlorobenzene                         | 0.7    | U         | 0.7    | UJ        | 0.51      | _           | 0.7       | U              | 0.7    |                | 0.47   |           |
| Chloroform                            | 8.7    |           | 1.3    |           | 0.74      |             | 40        |                | 0.74   | U              | 0.74   | U         |
| Chloromethane                         | 0.31   | U         | 0.0-2  | U         | 0.31      |             | 0.31      |                | 1.4    |                | 1.1    |           |
| Cis-1,2-Dichloroethene                | 1.8    |           | 0.6    | U         | 0.6       |             | 49        |                | 0.6    | U              | 0.6    | _         |
| Dichlorodifluoromethane               | 0.75   |           | 2.2    |           | 0.75      |             | 0.75      |                | 3      |                | 3.2    |           |
| Ethyl acetate                         | 0.92   | U         | 1.1    |           | 2.3       |             | 0.92      |                | 3.5    |                | 3.5    |           |
| Ethyl benzene                         | 15     |           | 390    | -         | 68        |             |           | EJ             | 41     |                | 59     |           |
| Heptane                               | 1.2    |           | 3.1    | J         | 9.7       |             | 1.8       |                | 9.2    | -              | 8.7    |           |
| Hexane                                | 0.54   |           | 3.5    |           | 10        |             | 0.54      |                | 6.4    |                | 5.4    |           |
| Methylene chloride                    | 0.53   | U         | 0.53   |           | 1.6       |             | 0.53      |                | 1.5    |                | 1.7    |           |
| Tetrachloroethene                     | 1100   |           | 780    | J         | 1500      |             | 1500      |                | 610    |                | 1600   |           |
| Toluene                               | 5.1    |           | 320    |           | 110       |             | 12        |                | 59     |                | 68     |           |
| trans-1,2-Dichloroethene              | 0.6    | U         | 0.6    |           | 0.6       |             | 2.9       |                | 0.6    |                | 0.6    |           |
| Trichloroethene                       | 1000   |           | 43     | J         | 5.8       | J           | 800       |                | 2.5    |                | 2.5    |           |
| Trichlorofluoromethane                | 3      |           | 2.6    |           | 6.7       |             | 2.7       |                | 4.2    |                | 4.6    |           |
| Xylene, m/p                           | 59     |           | 1500   |           | 250       |             | 200       |                | 83     |                | 290    |           |
| Xylene, o                             | 10     |           | 360    | J         | 80        | J           | 53        | EJ             | 27     |                | 38     |           |

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter (µg/m³)

Samples analyzed for VOCs by USEPA Method TO-15.

Location Name: AA = Ambient Air; SV = Soil Vapor; IA = Indoor Air

QC Code:

FS = Field Sample

FD = Field Duplicate Sample

#### Qualifiers:

- U = Not detected at a concentration greater than the reporting limit
- $E = \mbox{Detected at a concentration greater than the calibration range} \label{eq:energy}$
- J = Estimated value

**Bold** = analyte detection

## Reference:

New York State Department of Health, Center for Environmental Health, Bureau of Environmental Exposure Investigation, "FINAL Guidance for Evaluating Soil Vapor Intrusion in the State of New York", October 2006.

#### Criteria:

Highlighted results within the guidance criteria for <u>Mitigate</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results within the criteria for <u>Monitor</u>, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York (New York State Department of Health, 2006).

Highlighted results recommend that resonable and practical actions are taken to identify the source(s) and reduce exposure, as established in "Guidance for Evaluating Soil Vapor Intrusion in the State of New York"; or no further action to be taken (New York State Department of Health, 2006)

4.1 Table 3.7.xls Created by: BAS 04/27/2010
Page 1 of 1 Checked by: LJB 04/28/2010

Table 3.8 - NCIA (130043) - Ambient Air Results

|                          | Location    | A-A    | A-01      | C-A     | A-01      | N-A    | A-02      | V-A     | A-01      |
|--------------------------|-------------|--------|-----------|---------|-----------|--------|-----------|---------|-----------|
| S                        | Sample Date | 2/15/  | 2010      | 2/1/2   | 2011      | 2/16/  | 2010      | 2/18/   | 2010      |
|                          | Sample ID   | 130043 | -AA-01    | 130043C | C-AA-01   | 130043 | -AA-02    | 130043V | 7-AA-01   |
|                          | Qc Code     | F      | S         | F       | S         | F      | S         | F       | S         |
| Parameter Name           |             | Result | Qualifier | Result  | Qualifier | Result | Qualifier | Result  | Qualifier |
| Tetrachloroethene        |             | 4.6    |           | 7.8     |           | 1.1    |           | 4.1     |           |
| Trichloroethene          |             | 2.1    |           | 0.33    |           | 0.22   | U         | 0.22    | U         |
| 1,2,4-Trimethylbenzene   |             | 2      |           | 1.3     |           | 0.75   | U         | 0.75    | U         |
| 1,3,5-Trimethylbenzene   |             | 1.2    |           | 0.75    | U         | 0.75   | U         | 0.75    | U         |
| 2-Butanone               |             | 0.9    | U         | 1       |           | 0.78   | J         | 1.1     |           |
| 2-Propanol               |             | 0.37   | U         | 3.3     |           | 2.1    |           | 6.2     | EJ        |
| 4-Ethyltoluene           |             | 1.3    |           | 0.75    | U         | 0.75   | U         | 0.75    | U         |
| Acetone                  |             | 44     |           | 7.7     |           | 12     | EJ        | 17      | EJ        |
| Benzene                  |             | 1.3    |           | 1       |           | 0.75   |           | 0.88    |           |
| Carbon disulfide         |             | 0.41   | J         | 0.47    | U         | 0.47   | U         | 0.47    | U         |
| Carbon tetrachloride     |             | 0.58   | J         | 0.58    |           | 0.58   | J         | 0.58    | J         |
| Chloroform               |             | 1.2    |           | 0.74    | U         | 0.74   | U         | 0.74    | U         |
| Chloromethane            |             | 0.69   |           | 1       |           | 0.78   |           | 0.8     |           |
| Cyclohexane              |             | 12     |           | 0.52    | U         | 0.52   | U         | 0.52    | U         |
| Dichlorodifluoromethane  |             | 2.2    |           | 2.8     |           | 2.3    |           | 2.5     |           |
| Ethyl acetate            |             | 11     | J         | 0.92    | U         | 0.92   | U         | 0.92    | U         |
| Ethyl benzene            |             | 11     |           | 0.66    | U         | 0.66   | U         | 0.49    | J         |
| Heptane                  |             | 1.7    |           | 4.2     |           | 0.62   | U         | 0.62    | U         |
| Hexane                   |             | 6.6    |           | 1.1     |           | 0.54   | U         | 0.54    | U         |
| Isooctane                |             | 0.62   | J         | 0.71    | U         | 0.71   | U         | 0.71    | U         |
| Methylene chloride       |             | 1.3    |           | 0.39    | J         | 0.53   | U         | 1.3     |           |
| Styrene                  |             | 1.7    |           | 0.65    | U         | 0.65   | U         | 0.65    | U         |
| Toluene                  |             | 57     |           | 1.8     |           | 2.3    |           | 3.7     |           |
| trans-1,2-Dichloroethene |             | 0.69   |           | 0.6     | U         | 0.6    | U         | 0.6     | U         |
| Trichlorofluoromethane   |             | 1.1    |           | 2.6     |           | 1      |           | 1.2     |           |
| Xylene, m/p              |             | 11     | J         | 0.93    |           | 1.3    | -         | 1.2     | J         |
| Xylene, o                |             | 6.3    |           | 0.49    | J         | 0.66   | U         | 0.66    | U         |

NYSDEC = New York State Department of Environmental Conservation

Results in microgram per cubic meter  $(\mu g/M^3)$ 

Samples analyzed for VOCs by USEPA Method TO-15.

VOC = volatile organic compound

Location Name and NYSDCE Site Number: AA = Ambient Air

A-AA-1 = IMC Magnetics (130043A)

C-AA-1 = Tishcon Corp. 125 State Street (130043A)

N-AA-2 = EZ-EM, Inc. (130043N)

V-AA-1 = Tishcon Corp, New York Ave. (130043V)

QC Code:

 $FS = Field \ Sample$ 

Qualifiers:

 $\boldsymbol{U} = \boldsymbol{Not}$  detected at a concentration greater than the reporting limit

 $E = Detected \ at \ a \ concentration \ greater \ than \ the \ calibration \ range$ 

J = Estimated value **Bold** = analyte detection

Created By: RCM 4/14/2011 Checked By: BAS 04/16/2011 MACTEC Engineering and Consulting, P.C., Project No. 3612092127

Table 3.9: Tishcon Corp, New York Ave. (130043V) Direct Push Soil VOC Results

|                        | Location      | V-D       | P-01          | V-D       | P-02          | V-D       | P-04      | V-D     | P-05      |
|------------------------|---------------|-----------|---------------|-----------|---------------|-----------|-----------|---------|-----------|
|                        | Sample Date   | 5/19/2010 |               | 5/19/2010 |               | 5/19/2010 |           | 5/19/   | 2010      |
|                        | 130043V-DP125 |           | 130043V-DP224 |           | 130043V-DP410 |           | 130043V   | V-DP511 |           |
| Sample Depth (ft bgs)  |               | 25        |               | 24        |               | 10        |           | 1       | 1         |
|                        |               |           |               |           |               |           |           |         |           |
| Parameter Name (mg/kg) | Criteria      | Result    | Qualifier     | Result    | Qualifier     | Result    | Qualifier | Result  | Qualifier |
| 1,1,1-Trichloroethane  | 0.68          | 0.0055    | U             | 0.0056    | U             | 0.0081    |           | 0.0041  | U         |
| 1,1-Dichloroethane     | 0.27          | 0.0017    | J             | 0.0056    | U             | 0.0031    |           | 0.0041  | U         |
| Acetone                | 0.05          | 0.019     | J             | 0.023     | J             | 0.015     | U         | 0.02    | U         |
| Methylene chloride     | 0.05          | 0.0036    | J             | 0.0039    | J             | 0.003     | U         | 0.0012  | J         |
| Tetrachloroethene      | 1.3           | 0.0055    | U             | 0.0056    | U             | 0.0012    | J         | 0.0041  | U         |

#### **Notes:**

VOC = volatile organic compounds (only detected compounds shown.)

Samples analyzed for VOCs by EPA Method 8260B

mg/kg = milligrams per kilogram

ft bgs = feet below ground surface

Qualifiers:

U = Not detected greater than the reporting limit

J = Estimated value

Criteria = 6 NYCRR 375 Soil Cleanup Objectives for unrestricted use.

Detections are indicated in **BOLD** 

Created by: BAS 07/28/2010 Checked by: LJB 07/28/2010

# APPENDIX A

# FIELD DATA RECORDS

| INDOOR AIR SAMPLING RECORD       |          |                                  |                  |                                  |              |                                        |                |  |  |  |  |  |
|----------------------------------|----------|----------------------------------|------------------|----------------------------------|--------------|----------------------------------------|----------------|--|--|--|--|--|
| Project Name: N                  | uA.      | Client:                          | WODEZ            |                                  | Location ID: | A                                      |                |  |  |  |  |  |
| Project Number:3                 | 6120921  | Collector:                       | <u> A</u> Si     | ra W                             | Date: 01     | 2-15-2010                              | ) <del>-</del> |  |  |  |  |  |
|                                  |          | SUMMA                            | Canister Re      | cord Information:                |              |                                        |                |  |  |  |  |  |
| INDOOR AIR SA                    | MPLE     | INDOOR AIR S                     | AMPLE            | VINDOOR AIR S                    | AMPLE        | ASSOCIATED A                           | MBIENT         |  |  |  |  |  |
| Flow Regulator No:               | 688      | Flow Regulator No:               | 695              | Flow Regulator No:               |              | Flow Regulator No:                     | 678            |  |  |  |  |  |
| 위ow Rate (mL/min):               |          | Flow Rate (m⊔/min):              |                  | Flow Rate (mi_/min):             |              | Flow Rate (mt/min):                    |                |  |  |  |  |  |
| Canister Serial No:              | 211      | Canister Serial No:              | تاناة            | Canister Serial No:              |              | Canister Serial No:                    | 246            |  |  |  |  |  |
| Start Date/Time:                 | 1810     | Start Date/Time:                 | 02-15-16<br>1835 | Start Date/Time:                 |              | Start Date/Time:                       | 18:47          |  |  |  |  |  |
| Start Pressure (*Hg):            | - 30     | Start Pressure ("Hg);            | -29              | Start Pressure ("Hg):            |              | Start Pressure (*Hg).                  | - 30           |  |  |  |  |  |
| Stop Date/Time:                  | 02-16-16 | Stop Date/Time:                  | 02-16-10<br>1732 | Stop Date/Time:                  |              | Stop Date/Time:                        | 1734           |  |  |  |  |  |
| Stop Pressure ("Hg):             | -2       | Stop Pressure ("Hg):             | -3               | Stop Pressure ("Hg):             |              | Stop Pressure (*Hg):                   | -3             |  |  |  |  |  |
| Sample ID:<br> 300434-エチー        | ol       | Sample ID:<br>130043A-I4         | -02              | Sample ID:                       |              | Sample ID:<br>1300 43 A                | A-01           |  |  |  |  |  |
| Other Sampling Information:      |          |                                  |                  |                                  |              |                                        |                |  |  |  |  |  |
| Story/Level:                     | 154      | Story/Level:                     | 19               | Story/Level:                     |              | Direction from<br>Building:            | 7              |  |  |  |  |  |
| Room:                            | Clussrad | Room:                            | others           | Room:                            |              | Distance from<br>Building:             | ~51            |  |  |  |  |  |
| Potential Vapor Entry<br>Points: |          | Potential Vapor Entry<br>Points: | juire            | Potential Vapor Entry<br>Points: |              | Distance from<br>Roadway:              | ~ 50°          |  |  |  |  |  |
| Floor Surface:                   | tile     | Floor Surface:                   | curpet.          | Floor Sultace:                   |              | Ground Surface:                        |                |  |  |  |  |  |
| Noticable Odor:                  | Stight.  | Noticable Offer:                 | chlorine         | Noticable Odoc                   | -            | Noticable Odor:                        | nove           |  |  |  |  |  |
| PID Reading (ppb):               | 450ppL   | PID Reading (ppb):               | 950 Opb          | PIO Reading (ppb):               |              | PID Reading (pph):                     | Lol            |  |  |  |  |  |
| Intake Height:                   | 131      | Intake Height:                   |                  | inlake Height:                   |              | Intake Height Above<br>Ground Surface: |                |  |  |  |  |  |
| Indoor Air Temp:                 | 18,0     | Indoor Air Temp:                 | ~20°C            | indoor Air Temp:                 |              | Intake Tubing Used?                    | N              |  |  |  |  |  |
| Comments/Location                | Sketch:  |                                  |                  |                                  | _            |                                        |                |  |  |  |  |  |
|                                  |          |                                  |                  |                                  |              |                                        |                |  |  |  |  |  |
|                                  |          |                                  |                  |                                  |              |                                        |                |  |  |  |  |  |
|                                  |          |                                  |                  |                                  |              |                                        |                |  |  |  |  |  |
|                                  |          |                                  |                  |                                  |              |                                        |                |  |  |  |  |  |
| MMA                              | CT       | FC                               |                  |                                  |              |                                        |                |  |  |  |  |  |
| 511 Congress St                  |          |                                  |                  |                                  | INDOOR       | AIR SAMPLING                           | RECORD         |  |  |  |  |  |

| INDOOR AIR SAMPLING RECORD                                |           |                                                          |            |                                                           |                    |                                        |                 |  |  |  |  |  |  |
|-----------------------------------------------------------|-----------|----------------------------------------------------------|------------|-----------------------------------------------------------|--------------------|----------------------------------------|-----------------|--|--|--|--|--|--|
| Project Name:                                             | CIA       | Client:                                                  | NYSD       | )EC                                                       | Location ID:       | 25-621                                 | <u>A</u> _      |  |  |  |  |  |  |
| Project Number: 36                                        | 120921    | 27_Collector:_                                           | BAS        |                                                           | Date: <u>)//S</u>  | lio                                    |                 |  |  |  |  |  |  |
|                                                           |           | SUMMA C                                                  | anister Re | cord Information:                                         |                    |                                        |                 |  |  |  |  |  |  |
| SUBSLAB SOIL VAPO                                         | R SAMPLE  | SUBSLAB SOIL VAP                                         | OR SAMPLE  | SUBSLAB SOIL VAP                                          | OR SAMPLE          | ASSOCIATED A                           | MBIENT          |  |  |  |  |  |  |
| Flow Regulator No:                                        | 644       | Flow Regulator No:                                       | 690        | Flow Regulator No:                                        | 679                | Flow Regulator No:                     | 478             |  |  |  |  |  |  |
| Flow Rate (mL/min):                                       |           | Flow Rate (m⊡min);                                       |            | Flow Rate (mL/min):                                       |                    | , Flow Rate (mL/min):                  |                 |  |  |  |  |  |  |
| Canister Seriai No:                                       | 627       | Canister Serial No:                                      | 605        | Canister Serial No:                                       | 57b                | Canister Serial No:                    | 246             |  |  |  |  |  |  |
| Start Date/Time:                                          | 2/15:1811 | Start Date/Time:                                         | 2/15 1 TS  | Start Date/Time:                                          | 1842               | Start Date/Time:                       | 1847            |  |  |  |  |  |  |
| Start Pressure ("Hg):                                     | -30+      | Start Pressure ("Hg):                                    | -29        | Start Pressure (*Hg):                                     | - 30               | Start Pressure ("Hg):                  | -30.            |  |  |  |  |  |  |
| Stop Date/Time:                                           | 1769      | Stop Date/Time:                                          | 1714       | Stop Date/Time:                                           | 1734               | Stop Date/Time:                        | 02-16-18        |  |  |  |  |  |  |
| Stop Pressure ("Hg):                                      | -4        | Stop Pressure (*Hg):                                     | -(         | Stop Pressure ("Hg):                                      | -1                 | Stop Pressure ("Hg):                   | -3              |  |  |  |  |  |  |
| Sample ID:<br> 30043A - SS -                              | 0         | Sample ID:<br>130043A-9                                  | 55-02      | 1380431-8-0                                               | )-3 ₂ - | Sample ID:<br>13 6643 - A              | 16-4            |  |  |  |  |  |  |
| Other Sampling Information:                               |           |                                                          |            |                                                           |                    |                                        |                 |  |  |  |  |  |  |
| Finished Basement,<br>Crawl Space, Unfinished<br>Basement |           | Finished Basement,<br>Craw Space,<br>Unfinished Basement | ,          | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | office             | Direction from<br>Building:            | 7               |  |  |  |  |  |  |
| Floor Stab Thickness:                                     | ~6"       | Floor Slab Thickness:                                    | r5.5'I     | Floor Slab Thickness:                                     | " ما ح             | Distance from<br>Building:             | م5 ¹ |  |  |  |  |  |  |
| Potential Vapor Entry<br>Points:                          | 11        | Potential Vapor Entry<br>Points:                         | 14.0.00    | Potential Vapor Entry<br>Points:                          | Norse-             | Distance from<br>Roadway:              | ~50'            |  |  |  |  |  |  |
| Floor Surface:                                            | Conorte   | Ftoor Surface:                                           | Concrete.  | Floor Surface:                                            | tile               | Ground Surface:                        | Siw             |  |  |  |  |  |  |
| Noticable Odor:                                           | 1100-     | . Noticable Odor:                                        | 1 min      | Noticable Odor.                                           | na.                | Noticable Odor:                        | Neve            |  |  |  |  |  |  |
| PID Reading (page):                                       | 27.8 m    | PID Reading (ppb):                                       | 2007       | PID Reading (ppb):                                        | 8 ppm              | PIC Reading (ppb):                     | -0.1            |  |  |  |  |  |  |
| Intake Depth/Height:                                      | ~ & 1,    | Intake Depth/Height:                                     | 7"         | Intake Depth/Height:                                      | 3                  | Intake Height Above<br>Ground Surface: |                 |  |  |  |  |  |  |
| Helium Test Conducted?<br>Breakthrough %:                 |           | Helium Test<br>Conducted?                                | 1 10 11    | Helium Test<br>Conducted?                                 | No.                | Intake Tubing Used?                    | N.              |  |  |  |  |  |  |
| Comments/Location                                         | 5hop.     | `EC                                                      |            |                                                           |                    | AIR SAMPLING                           |                 |  |  |  |  |  |  |

511 Congress Street, Portland, ME 04101

| INDOOR AIR SAMPLING RECORD              |                       |                                  |                               |                                  |                   |                                        |                    |  |
|-----------------------------------------|-----------------------|----------------------------------|-------------------------------|----------------------------------|-------------------|----------------------------------------|--------------------|--|
| Project Name:                           | NUIA                  | Client: NNSDEU                   |                               | )EU                              | Location ID:_     | Strutue                                | <b>₽</b>           |  |
| Project Number: 5                       | 41209212              | 27 Collector:_                   | B                             | Shad                             | Date: 0           | 12-16-2010                             |                    |  |
| SUMMA Canister Record Information:      |                       |                                  |                               |                                  |                   |                                        |                    |  |
| INDOOR AIR SAMPLE                       |                       | INDOOR AIR SAMPLE                |                               | INDOOR AIR S                     | INDOOR AIR SAMPLE |                                        | ASSOCIATED AMBIENT |  |
| Flow Regulator No:                      | 677                   | Flow Regulator No:               | 685                           | Fiow Regulator No:               |                   | Flow Regulator No:                     |                    |  |
| Flow Rate (mL/min):                     |                       | Flow Rate (m⊡/min):              |                               | Flow Rate (mL/min):              |                   | Flow Rate (mDmin):                     |                    |  |
| Canister Serial No:                     | 1997 J                | Canister Serial No:              | 461                           | Canister Serial No:              |                   | Canister Serial No:                    |                    |  |
| Start Date/Time:                        | 716/10<br>= 10:56     | Start Date/Tigne:                | 2/16/10<br><del>-10</del> :54 | 954Start Date/Nime:              |                   | Start Date/Time:                       |                    |  |
| Start Pressure ("Hg):                   | )(                    | Start Pressure ("Hg):            |                               | Start Pressure ("Hg)\            |                   | Start Pressure ("Hg):                  |                    |  |
| Stop Date/Time:                         | 92-17-10<br>9816      | Stop Date/Time:                  | 02-17-18                      | Stop Date/Time;                  |                   | Stop Date/Time;                        |                    |  |
| Stop Pressure ("Hg):                    |                       | Stop Pressure (*Hg):             | -3                            | Stop Pressure ("Hg):             |                   | Stop Pressure ("Hg):                   |                    |  |
| Sample ID:<br>/ <i>300431</i> 3         | 3-IA-01               | Sample ID:<br>130043-II          | A-02                          | Sample ID:                       |                   | Sample ID:                             |                    |  |
| Other Sampling Information:             |                       |                                  |                               |                                  |                   |                                        |                    |  |
| Story/Level:                            | 1st Floor<br>60 and 1 | Story/Level:                     | 1st of<br>Govenoy             | y Story/Level:                   |                   | Direction from<br>Building:            |                    |  |
| Room:                                   | J                     | Room:                            | Shop                          | Room:                            |                   | Distance from<br>Building:             |                    |  |
| Potential Vapor Entry<br>Points:        | 1 1                   | Potential Vapor Entry<br>Points: | -                             | Potential Vapor Entry<br>Points: |                   | Distance from<br>Roadway:              |                    |  |
| Floor Surface:                          | Concrete              |                                  | Concrete                      | \                                |                   | Ground Surface:                        |                    |  |
| Noticable Cdor:                         | 7 .                   |                                  | Yes.<br>Developá              | Noticable Odok                   |                   | Noticable Odor:                        |                    |  |
| PID Reading (peb):                      |                       | PID Reading (ppb):               | 23.1ppn                       | PID Reading (ppb);               |                   | PID Reading (ppb):                     |                    |  |
| Intake Height:                          | 34.                   | Intake Height:                   | 44                            | Intake Height:                   |                   | Intake Height Above<br>Ground Surface: |                    |  |
| Indoor Air Temp:                        | _ ~ , ,               | Indoor Air Temp:                 | 68'F                          | Indoor Air Temp:                 |                   | Intake Tubing Used?                    |                    |  |
| Comments/Location Sketch:               |                       |                                  |                               |                                  |                   |                                        |                    |  |
|                                         |                       |                                  |                               |                                  |                   |                                        |                    |  |
|                                         |                       |                                  |                               |                                  |                   |                                        |                    |  |
|                                         |                       |                                  |                               |                                  |                   |                                        |                    |  |
|                                         |                       |                                  |                               |                                  |                   |                                        |                    |  |
| MACTEC INDOOR AIR SAMPLING RECORD       |                       |                                  |                               |                                  |                   |                                        |                    |  |
| 511 Congress Street, Portland, ME 04101 |                       |                                  |                               |                                  |                   |                                        |                    |  |

| INDOOR AIR SAMPLING RECORD                                |                 |                                                           |                  |                                                           |                       |                                        |              |  |  |
|-----------------------------------------------------------|-----------------|-----------------------------------------------------------|------------------|-----------------------------------------------------------|-----------------------|----------------------------------------|--------------|--|--|
| Project Name:                                             |                 | Client:                                                   |                  | ev                                                        | Location ID:          | Structure<br>02-16-2010                | <u>B</u>     |  |  |
| Project Number: 3                                         | e(2092)?        | ロー_Collector:_                                            | ъSV              | reun                                                      | Date:                 | 02 -16 - 2010                          | <del>-</del> |  |  |
| SUMMA Canister Record Information:                        |                 |                                                           |                  |                                                           |                       |                                        |              |  |  |
| SUBSLAB SOIL VAPO                                         | R SAMPLE        | SUBSLAB SOIL VAP                                          | OR SAMPLE        | SUBSLAB SOIL VAP                                          | OR SAMPLE             | ASSOCIATED A                           | MBIENT       |  |  |
| Flow Regulator No:                                        | 700             | Flow Regulator No:                                        | 681              | Flow Regulator No:                                        | 680                   | Flow Regulator No:                     | Ð            |  |  |
| Flow Rate (mL/min):                                       |                 | Ftow Rate (mUmin):                                        |                  | Flow Rate (mL/min):                                       |                       | Flow Rate (mL/min):                    |              |  |  |
| Canister Serial No:                                       | 644             | Canister Serial No:                                       | 636              | Canister Serial No:                                       | 6/4                   | Canister Serial No:                    |              |  |  |
| Start Date/Time:                                          | 2/16/10<br>0459 | Start Date/Time:                                          | 2/16/10<br>452   | Start Date/Time:                                          | <i>2 16 10</i><br>≪50 | Start Date/Time:                       |              |  |  |
| Start Pressure ("Hg):                                     | _3c             | Start Pressure ("Hg):                                     | -28              | Start Pressure ("Hg):                                     | ~ JU.                 | Start Pressure ("Hg):                  |              |  |  |
| Stop Date/Time:                                           | 02+7-/0<br>1323 | Stop Date/Time:                                           | 02-17-10<br>0821 | Stop Date/Time:                                           | 02-17-10<br>1818      | Stop Date/Time;                        |              |  |  |
| Stop Pressure ("Hg):                                      | -4              | Stop Pressure (*Hg):                                      | ,<br>5           | Stop Pressure ("Hg):                                      | _ i2                  | Stop Pressure ("Hg):                   |              |  |  |
| Sample ID:<br>1300438 - 1                                 | 58-01           | Sample ID:<br>130043B - S                                 | 55-02            | Sample ID:<br>                                            | 55-03                 | Sample ID:                             |              |  |  |
| · · · · · · · · · · · · · · · · · · ·                     |                 |                                                           | r Sampling       | Information:                                              |                       |                                        | ·            |  |  |
| Finished Basement,<br>Crawl Space, Unfinished<br>Basement | 598cment        | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | on-grade         | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | on-grade              | Direction from<br>Building:            |              |  |  |
| Floor Stab Thickness:                                     | ~ (· "          | Floor Slab Thickness:                                     | 16"              | Floor Slab Thickness:                                     | 116"                  | Distance from<br>Building:             |              |  |  |
| Potential Vapor Entry<br>Points:                          | nove            | Potential Vapor Entry<br>Points:                          | none             | Potential Vapor Entry<br>Points:                          | hare                  | Distance from<br>Roadway:              |              |  |  |
| Floor Surface:                                            | CONCICK         | Floor Surface:                                            | Concrete         | Floor Surface:                                            | (mate                 | Ground Surface:                        |              |  |  |
| Noticable Odor:                                           | Иά.             | Noticable Odor:                                           | na               | Noticable Odor:                                           | 1100                  | Noticable Odor:                        |              |  |  |
| PID Reading (ppb):                                        | 10.38           | PID Reading (ppb):                                        | 32.300           | PID Reading (ppb):                                        | 8.5 pp                |                                        |              |  |  |
| Intake Depth/Height:                                      |                 | Intake Depth/Height:                                      | , ,              | Intake Depth/Height:                                      | - 1;                  | Intake Height Above<br>Ground Surface: |              |  |  |
| Helium Test Conducted?  Sreakthrough %:                   |                 | Helium Test<br>Conducted?                                 |                  | Helium Test<br>Conducted?                                 |                       | Intake Tubing Used?                    |              |  |  |

Comments/Location Sketch:



| INDOOR AIR SAMPLING RECORD        |                                     |                                  |                |                                  |              |                                       |          |  |  |  |
|-----------------------------------|-------------------------------------|----------------------------------|----------------|----------------------------------|--------------|---------------------------------------|----------|--|--|--|
| PROJECT NAME:                     | Nev                                 | v Cassel Industrial At           | rea - Site C   | LOCATION ID:                     | Structur     | e C DATE: 2/                          | 1/2011_  |  |  |  |
| PROJECT NO./TAS                   | K NO.:                              | 3612072:27-03.                   | 1              | CLIENT:                          | NYSDEC       |                                       | !        |  |  |  |
| PROJECT LOCATE                    | ON                                  | Hempstead, New Yo                | σk             | SAMPLER NAM                      | E. Bran      | nd <del>on S</del> haw / Jeiry R      | eveliff  |  |  |  |
| WEATHER CONDI                     | TIONS (AM)                          | : 20 degrees F                   | , light snow   | SAMPLER SIGN                     | ATERT        | Jerry                                 | Kundiff  |  |  |  |
| WEATHER CONDI                     | TIONS (PM).                         | 25 degree F.                     | light snow     | CHECKED BY:                      | Kem          | 6Ate: U-3                             | 129/11   |  |  |  |
| SUMMA Canister Record Information |                                     |                                  |                |                                  |              |                                       |          |  |  |  |
| INDOOR AIR S.                     | INDOOR AIR SAMPLE INDOOR AIR SAMPLE |                                  | INDOOR AIR S   | AMPLE                            | AMBIENT AIR  | SAMPLE                                |          |  |  |  |
| Flow Regulator<br>Number:         | 392                                 | Flow Regulator<br>Number:        | 121            | Flow Regulator<br>Number:        | 439          | Flow Regulator<br>Number:             | 268      |  |  |  |
| Flow Rate<br>(mL/min):            | 4                                   | Flow Rate<br>(mL/min):           | ~ 4            | Flow Rate<br>(ml/min):           | ~ 4          | Flow Rate<br>(mL/nun):                | 4        |  |  |  |
| Canister Senal<br>Number.         | 413                                 | Canister Sertal<br>Number:       | 543            | Canister Serial<br>Number        | 248          | Canister Serial<br>Number:            | 286      |  |  |  |
| Start Date/Time:02-01-11          | @ 1050                              | S;art Date/Time:02-01-11         | @ 1107         | Start Date/Time:02-01-11         | @1117        | Start Date/Time 02-01-1               | 1@1:11   |  |  |  |
| Start Pressure<br>("Hg):          | -29                                 | Start Pressure<br>("Hg):         | - 30+          | Start Pressure<br>("Hg):         | -29          | Start Pressure<br>("Hg):              | -29      |  |  |  |
| Stop Date/Time:02-02-11           | @ \$106                             | Stop Date/Time:02-02-11          | @1110<br>'5 Am | \$100-Bate/June:02-02-11         | @ 1115       | Stop Date/Time:02-02-1                | l @ 1246 |  |  |  |
| Stop Pressure<br>("Hg);           | -0.5                                | Stop Pressure<br>("Hg):          | V-2            | Stop Pressure<br>("Hg):          | -2           | Stop Pressure<br>("Hg):               | 0        |  |  |  |
| Sample ID: 13004                  | 3C-IA-01                            | Sample ID: 13004                 | 3C-IA-02       | \$ample ID: 13004                | 3C-1A-03     | Sample ID: 13004                      | 3C-AA-01 |  |  |  |
|                                   |                                     | Othe                             | er Samplin     | g Information:                   |              |                                       |          |  |  |  |
| Story/Level:                      | First                               | Story/Level:                     | Pirst          | Story/Level:                     | First        | Direction from<br>Building            | south    |  |  |  |
| Room                              | Warehouse                           | Room:                            | Warehouse      | Room:                            | Warehouse    | Distance from Building:               | 2'       |  |  |  |
| Potential Vapor<br>Entry Points:  | loading door                        | Potential Vapor<br>Entry Points: | none           | Potential Vagor<br>Entry Points: | loading door | Distance from<br>Roadway:             | ~ 500'   |  |  |  |
| Floor Surface:                    | concrete                            | Floor Surface:                   | concrete       | Floor Surface:                   | concrete     | Ground Surface:                       | snow     |  |  |  |
| Noticable Odor:                   | ропе                                | Noticable Odor:                  | попе           | Noticable Odor:                  | none         | Noticable Odor:                       | поле     |  |  |  |
| PID Reading (ppb)                 | 200                                 | PID Reading (ppb):               | 330            | PID Reading (ppb):               | 420          | PID Reading (ppb):                    | < 0.1    |  |  |  |
| Intake Height:                    | 5'                                  | Intake Height:                   | 5'             | Intake Height:                   | 4'           | Intake Height above<br>Ground Swafee: | ~ 4'     |  |  |  |
| Indoor Air Temp                   | 60 F                                | Indoor Air Temp                  | 60 F           | Indoor Air Temp                  | 60 F         | Intake tubing?                        | na       |  |  |  |
| Comments/Locatio                  | n Sketch:                           | <u> </u>                         |                | <u> </u>                         |              |                                       |          |  |  |  |



FIGURE 4-19 INDOOR AIR SAMPLING RECORD NYSDEC QUALITY ASSUR<u>ANCE PROJE</u>CT PLAN

|                                    |            | INDOOR                             | AIR SAN      | APLING RECO                        | KD.       |                                    |             |
|------------------------------------|------------|------------------------------------|--------------|------------------------------------|-----------|------------------------------------|-------------|
| PROJECT NAME:                      | Ne         | w Cassel In <u>dustrial A</u>      | rea - Site C | LOCATION ID:                       | Structur  | re C DATE: 2/                      | 1/2011      |
| PROJECT NO./TAS                    | K NO.:     | 3612072127-03.                     | .1           | CLIENT:                            | NYSDEC    |                                    |             |
| PROJECT LOCATE                     | ON:        | Hempstead, New Yo                  | ork          | SAMPLER NAM                        | G: Bra    | ndou Shaw / Jenry R                | awcliff     |
| WEATHER COND                       | TIONS (AM  | ): 20 degrees I                    | , light snow | SAMPLER SIGN                       | ATORE:    | بيده لأحتريب                       | Kawll       |
| WEATHER CONDI                      | TIONS (PM) | ): <u>25 degree F</u>              | light snow   | CHECKED BY:                        | 1600      | DA/TEV                             | 1/29/10     |
|                                    |            | SUMMA                              | Canister !   | Record Informatio                  | )))       |                                    | . ,         |
| SUB-SLAB SOIL<br>SAMPLE            |            | SUB-SLAB SOIL<br>SAMPLE            |              | SUB-SLAB SOIL<br>SAMPLI            |           | SUB-SLAB SOII<br>SAMPL             |             |
| Flow Regulator<br>Number:          | 782        | Flow Regulator<br>Number           | 782          | Flow Regulator<br>Number:          | 404       | Flow Regulator<br>Number:          | /110        |
| Flow Rate<br>(mL/min):             | ~ 4"       | Flow Rate<br>(mL/min):             | ·- 4'        | Flow Rate<br>(mL/min):             | ~ 4°      | Flow Rate<br>(mL/min):             | 4'          |
| Canister Serial<br>Number:         | 96         | Canister Serial<br>Number:         | 431          | Canister Seria)<br>Number:         | 430       | Canister Serial<br>Number:         | 362         |
| Stact Date/Time:02-01-11           | @ 1046     | Start Date/Time 02-01-11           | @ L048       | Start Date/Time:02-01-11           | 1@1105    | Start Date/Time:02-01-1            | 1 @ 1:22    |
| Start Pressure<br>("Hg):           | -30        | Start Pressure<br>("Hg):           | -30          | Start Pressure<br>( 'Mg):          | - 30+     | Start Pressure<br>("Hg):           | -36 -25     |
| Stop Date/Tinte:02-02-11           | . @ 1106   | Stop Date/Time:02-02-11            | @ 1106       | Stop Date/Time:02-02-19            | . @ 1110  | Stop Date/Time:02-02-1             | 1@1117      |
| Stop Pressure<br>("Hg):            | -1         | Stop Pressure<br>("Hg):            | -1           | Stop Pressure<br>("Hg):            | -l        | Srop Pressure<br>("Hg):            | -0.5        |
| Sample ID: 13004                   | 3C-SS-01   | Sample (D: 1300430                 | SS-01DUP     | Sample ID: 13004                   | 3C-SS-02  | Sample ID: 13004                   | 3C-SS-03    |
|                                    |            | Othe                               | er Samplin   | g Information;                     |           |                                    |             |
| Finished Basement,<br>Crawl Space, | Warehouse  | Finished Basement,<br>Craw! Space, | Warehouse    | Finished Basement,<br>Crawl Space, | Warchouse | Finished Basement,<br>Crawl Space, | Warehouse   |
| Floor Slab<br>Thickness:           | 3"         | Floor Stab<br>Thickness:           | 3            | Floor Slab<br>Thickness            | 3"        | Floor Slab<br>Thickness.           | 3"          |
| Potential Vapor<br>Entry Points:   | none       | Potential Vapor<br>Entry Points:   | none         | Potential Vapor<br>Entry Points:   | none      | Potential Vapor<br>Entry Points:   | floor drain |
| Floor Surface:                     | concrete   | Ploor Surface:                     | concrete     | Floor Surface;                     | concrete  | Floor Surface:                     | concrete    |
| Noticable Odor:                    | NA         | Noticable Odor:                    | NA           | Noticable Odor:                    | NA        | Noticable Odom                     | NA .        |
| PID Reading (ppb):                 | 400        | P(D Reading (ppb):                 | 400          | PID Reading (ppb):                 | 343       | PID Reading (ppb):                 | 430         |
| Intake<br>Depth/Height:            | ~ 7"       | Intake<br>Depth/Height:            | ~ 7"         | Intake<br>Depth/Height:            | ~ 7"      | Intake<br>Depth/Height:            | ~ 7"        |
| Helium Test<br>Conducted?          | No         | Helium Test<br>Conducted?          | No           | Helium Test<br>Conducted?          | No        | Helium Test<br>Conducted?          | Yes         |
| Comments/Locatio                   | n Sketch:  |                                    |              |                                    |           |                                    |             |

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FIGURE 4-19 INDOOR AIR SAMPLING RECORD NYSDEC QUALITY ASSURANCE PROJECT PLAN

|                              |                                    | INDOOR .                 | AIR SAMI    | PLING RECORE                     |                |                                        |          |  |  |
|------------------------------|------------------------------------|--------------------------|-------------|----------------------------------|----------------|----------------------------------------|----------|--|--|
| Project Name: N              | 01A                                | Client:                  | 7 A2D.      | a_                               | Location ID:   | Justure                                | <u>=</u> |  |  |
| Project Number:              | 0612092                            | 127_Collector:_          | <b>b</b> -' | Show                             | Date: <u>0</u> | Junture<br>2-16-2010                   |          |  |  |
|                              | SUMMA Canister Record Information: |                          |             |                                  |                |                                        |          |  |  |
| INDOOR AIR SA                | MPLE                               | INDOOR AIR S             | AMPLE       | INDOOR AIR S                     | AMPLE          | ASSOCIATED A                           | MBIENT   |  |  |
| Flow Regulator No:           | li Z_                              | Flow Regulator No:       | 689         | Flow Regulator No.               |                | Flow Regulator No:                     |          |  |  |
| Flow Rate (mt/min):          |                                    | Flow Rate (mL/min):      |             | Flow Rate (mu/min):              |                | Flow Rate (m½/min):                    |          |  |  |
| Canister Serial No:          | 237                                | Canister Serial No:      | 164         | Canister Serial No:              |                | Canister Selial No:                    |          |  |  |
| Start Date/Time:             | 1414                               | Start Date/Time          | 1412        | Start Date Time:                 |                | Start Date/Time:                       |          |  |  |
| Start Pressure (*Hg):        | -28.                               | Start Pressure ("Hg):    | -29         | Start Pressure ("Hg):            |                | Start Pressure ("Hg):                  |          |  |  |
| Stop Date/Time:              | 02-17-10<br> 330                   | Stop Date/Time;          | 1328        | Stop Date/Time:                  |                | Stop Date/Time:                        |          |  |  |
| Stop Pressure ("Hg):         | Æ                                  | Stop Pressure ("Hg):     | -3          | Stop Pressure ("Hg):             |                | Stop Pressure (*Hg):                   | \        |  |  |
| Sample ID:<br>130/43 F - I A | -0                                 | Sample ID:<br>130043ドーエ。 | 4-02        | Samplé ID;                       |                | Sample ID:                             |          |  |  |
|                              | Other Sampling Information:        |                          |             |                                  |                |                                        |          |  |  |
| Story/Level:                 | jst                                | Story/Level:             | FF          | Story/Level:                     |                | Direction from Building:               |          |  |  |
| Room:                        | Haras                              | Room:                    | othic       | Room:                            |                | Cistance from<br>Building:             | _        |  |  |
| Potential Vapor Entry        | 1<br>None                          | Potential Vapor Entry    | garaje don  | Potential Vapor Entry<br>Points: |                | Distance from<br>Roadway:              |          |  |  |
| Floor Surface:               |                                    | Floor Surface:           | d 9         | Floor Surface:                   |                | Ground Syrface:                        |          |  |  |
| Noticable Odor:              | oils                               | Noticable Odor:          | Smore       | Noticable Odor:                  |                | Noticable Odor.                        |          |  |  |
| PID Reading (ppb):           | 345                                | PID Reading (ppb):       | 415         | PID Reading (opb):               |                | PID Reading (ppb):                     |          |  |  |
| Intake Height:               | _ •                                | Intake Height:           | ~3'         | Intake Height:                   |                | Intake Height Above<br>Ground Surface: |          |  |  |
| Indoor Air Temp:             | ~ 14·C                             | Indoor Air Temp:         | 156         | Indoor Air Temp:                 |                | Intake Tubing Used?                    |          |  |  |
| Comments/Location            |                                    | TC                       |             |                                  |                |                                        |          |  |  |
| MA 511 Congress St           |                                    |                          |             |                                  | INDOOR         | AIR SAMPLING                           | RECORD   |  |  |

|                                                                                                 |                  | MDOOD                                                     | AID CAIAE                | NUMC BECORE                                               |                   |                                        |           |  |  |
|-------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------|--------------------------|-----------------------------------------------------------|-------------------|----------------------------------------|-----------|--|--|
| INDOOR AIR SAMPLING RECORD                                                                      |                  |                                                           |                          |                                                           |                   |                                        |           |  |  |
| Project Name: N                                                                                 |                  | Client:                                                   |                          | Z                                                         | Location ID:      | 5tructure<br>2-16-2010                 | <u>F-</u> |  |  |
| Project Number: 3(                                                                              | 12012            | 127 Collector:                                            | _BSh                     | aw                                                        | Date: 02          | 2-16-2010                              |           |  |  |
| SUMMA Canister Record Information:                                                              |                  |                                                           |                          |                                                           |                   |                                        |           |  |  |
| SUBSLAB SOIL VAPOR SAMPLE SUBSLAB SOIL VAPOR SAMPLE SUBSLAB SOIL VAPOR SAMPLE ASSOCIATED AMBIEN |                  |                                                           |                          |                                                           |                   |                                        | MBIENT    |  |  |
| Flow Regulator No:                                                                              | 697              | Flow Regulator No:                                        | 698.                     | Flow Regulator No:                                        | 682               | Flow Regulator No:                     |           |  |  |
| Flow Rate (m:L/min):                                                                            | -                | Flow Rate (mi⊿min):                                       |                          | Flow Rate (mL/min):                                       |                   | Flow Rate (mt/min):                    |           |  |  |
| Canister Serial No:                                                                             | 635              | Canister Senal No:                                        | <b>₽3</b> \              | Çanîster Serial No:                                       | 583               | Canister Serial No:                    |           |  |  |
| Start Date/Time:                                                                                | 1405             | Start Date/Time:                                          | 62-16-101<br> 41\        | Start Date/Time:                                          | 1409              | Start Oate/Time:                       |           |  |  |
| Start Pressure ("Hg):                                                                           | -28              | Start Pressure ("Hg):                                     | -30+                     | Start Pressure ("Hg):                                     | -29               | Start Pressure ("Hg):                  |           |  |  |
| Ştop Date/Time:                                                                                 | 02/17-18<br>1331 | Stop Date/Time:                                           | 02-17-0 <b>6</b><br>1334 | Stop Date/Time:                                           | 02-17-10<br>1338  | Stop Oate/Time:                        |           |  |  |
| Stop Pressure ("Hg):                                                                            | -                | Stop Pressure ("Hg):                                      | -7                       | Stop Pressure ("Hg):                                      | -2                | Stop Pressure ("Hg):                   | ,         |  |  |
| Sample ID:<br> 30043F55_1                                                                       | ð)               | Sample ID:<br>130043F_55                                  | -62                      | Sample 10:<br>1 38043F-5                                  | 5-03              | Şample ID:                             |           |  |  |
| <del></del>                                                                                     |                  | Othe                                                      | r Sampling               | Information:                                              | ı                 |                                        |           |  |  |
| Finished Basement,<br>Crawl Space, Unfinished<br>Basement                                       | givaje           | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | gwase                    | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | gerra per         | Direction from Building:               |           |  |  |
| Floor Sfab Thickness:                                                                           | ^5"              | Floor Slab Thickness:                                     | 17.5 ¹¹       | Floor Slab Thickness:                                     | -7.5 ⁴ | Distance from Building:                |           |  |  |
| Potential Vapor Entry<br>Points:                                                                | here             | Patential Vapor Entry<br>Points:                          | none                     | Potential Vapor Entry<br>Points:                          | ne-e-             | Distance from<br>Roadway:              |           |  |  |
| Floor Surface:                                                                                  | Concrete         | Floor Surface:                                            | Concrett                 | Floor Surface:                                            | Concrete          | Ground Syrface:                        |           |  |  |
| Noticable Odor:                                                                                 | oils             | Noticable Odor:                                           | oili                     | Noticable Odor:                                           | oris              | Noacable Odor:                         |           |  |  |
| PID Reading (ppb):                                                                              | 651              | PID Reading (ppb):                                        | 2655                     | PID Reading (ppb):                                        | 360               | PID Reading (ppb):                     |           |  |  |
| Intake Depth/Height:                                                                            | ٧.               | Intake Depth/Height:                                      | ~9ª                      | Intake Depth/Height:                                      | 1                 | Intake Height Above<br>Ground Surface: |           |  |  |
| Helium Test Conducted?<br>Breakthrough %:                                                       |                  | Helium Test<br>Conducted?                                 |                          | Helium Test<br>Conducted?                                 |                   | Intake Tubing Used?                    |           |  |  |
| Comments/Location                                                                               | ı Sketch:        |                                                           |                          |                                                           |                   |                                        |           |  |  |

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| INDOOR AIR SAMPLING RECORD                     |                             |                                  |                    |                                  |                  |                                        |            |  |
|------------------------------------------------|-----------------------------|----------------------------------|--------------------|----------------------------------|------------------|----------------------------------------|------------|--|
| Project Name: N                                | ULA                         | Client:                          |                    | ev                               | Location ID:     | Structure 6<br>-16-2010.               | =          |  |
| Project Number: 7                              | 1612092                     | レレンフ Collector:_                 | <u>g SV</u>        | raw                              | Date: <u>0</u> 2 | _16-2010.                              |            |  |
| SUMMA Canister Record Information:             |                             |                                  |                    |                                  |                  |                                        |            |  |
| INDOOR AIR SA                                  | MPLE                        | INDOOR AIR S                     | AMPLE              | NDOOR AIR S                      | AMPLE            | ASSOCIATED A                           | MBIENT     |  |
| Flow Regulator No:                             | 186                         | Flow Regulator No:               | i&3                | Flow Regulator No:               |                  | Flow Regulator No:                     |            |  |
| Flow Rate (mU/min):                            |                             | Flow Rate (mL/min):              |                    | Flow Rate (mUmin):               |                  | Flow Rate (mL/min):                    |            |  |
| Canīster Serial No:                            | 549                         | Canister Serial No:              | 361                | Canister Serial No:              |                  | Canister Serial No:                    |            |  |
| Start Date/Time:                               | 02-16-10-                   | Start Date/Time:                 | 02-16-10<br>1138 : | Start Date/Time:                 |                  | Start Date/Time:                       |            |  |
| Start Pressure ("Hg):                          | -24                         | Start Pressure (*Hg):            | -30                | Start Pressure (*Hg):            |                  | Start Pressure ("Hg):                  |            |  |
| Stop Date/Time:                                | 97-17-18<br>1045            | Stop Date/Time:                  | 02-17-12<br>1106   | Stop Date/Time:                  |                  | Stop Date/Time:                        | λ          |  |
| Stop Pressure ("Hg):                           | -4                          | Stop Pressure ("Hg):             |                    | Stop Pressure ("Hg):             | \                | Stop Pressure ("Hg):                   |            |  |
| Sample ID: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | A-de                        | Sample ID:<br>1300ちは一丁A          | -02                | Sample ID:                       |                  | Sample ID:                             |            |  |
|                                                | Other Sampling Information: |                                  |                    |                                  |                  |                                        |            |  |
| Story/Level:                                   | IST                         | Story/Level:                     | j ^{sr}    | Story/Level-                     |                  | direction from<br>Building:            |            |  |
| Room:                                          | office                      | Room:                            | othie              | Room:                            |                  | Distance from<br>Quilding:             |            |  |
| Potential Vapor Entry<br>Points:               | imme                        | Potential Vapor Entry<br>Points: | hone               | Potential Vapor Entry<br>Points: |                  | Distance from<br>Roadway:              |            |  |
| Floor Surface:                                 | curpet                      | Floor Surface:                   |                    | Floor Surface:                   |                  | Ground Surface:                        |            |  |
| Noticable Odor:                                | none                        | Noticable Odor:                  | , ,                | Noticable Odor:                  |                  | Noticable Odo                          |            |  |
| PIO Reading (ppb).                             | 481                         | PID Reading (ppb):               | (81                | PID Reading (ppb):               |                  | PID Reading (ppb):                     |            |  |
| Intake Height:                                 | ~51                         | Intake Height:                   | ~3¹                | Intake Heigh!:                   |                  | Intake Height Above<br>Ground Surface: |            |  |
| Indoor Air Temp:                               | · , ı                       | indoor Air Temp:                 | ~17E               | indoor Air Temp:                 |                  | Intake Tubing Used?                    | <u>  \</u> |  |
| Comments/Location                              | Sketch:                     |                                  |                    |                                  |                  |                                        | ,          |  |
| MA S11 Congress St                             |                             |                                  |                    |                                  | INDOOR           | AIR SAMPLING                           | RECORD     |  |

| INDOOR AIR SAMPLING RECORD                                |                                                                                                  |                                                           |                  |                                                           |                    |                                     |  |  |  |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------|-----------------------------------------------------------|--------------------|-------------------------------------|--|--|--|
| Project Name:                                             | NOI A.                                                                                           | Client:                                                   | h                | DEU-                                                      | Location ID:       | Structure F.                        |  |  |  |
| Project Name:                                             | 612042                                                                                           | 127 Collector:                                            | β·`>             | New _                                                     | Date: 02           | Structure +                         |  |  |  |
| SUMMA Canister Record Information:                        |                                                                                                  |                                                           |                  |                                                           |                    |                                     |  |  |  |
| SUBSLAB SOIL VAPO                                         | SUBSLAB SOIL VAPOR SAMPLE SUBSLAB SOIL VAPOR SAMPLE SUBSLAB SOIL VAPOR SAMPLE ASSOCIATED AMBIENT |                                                           |                  |                                                           |                    |                                     |  |  |  |
| Flow Regulator No:                                        | 696                                                                                              | Flow Regulator No:                                        | 143094           | Flow Regulator No:                                        | 643                | Flow Regulator No:                  |  |  |  |
| Flow Rate (mt/min):                                       |                                                                                                  | Flow Rate (mit/min):                                      |                  | Flow Rate (mL/min):                                       |                    | Flow Rate (mL/min):                 |  |  |  |
| Canister Serial No:                                       | 617                                                                                              | Canister Sorial No:                                       | 1648 W           | Canister Serial No:                                       | 641                | Canister Serial No:                 |  |  |  |
| Start Date/Time:                                          | 2116110<br>10 58                                                                                 | Start Date/Time:                                          | 92-16-10<br>1142 | Start Date/Time;                                          | 1-16-10            | Start Date:Time:                    |  |  |  |
| Start Pressure ("Hg):                                     | -30                                                                                              | Start Pressure ("F.g):                                    | -29              | Start Pressure ("Hg):                                     | -28                | Start Pressure ("Hg):               |  |  |  |
| Stop Date/Time:                                           | 1101                                                                                             | Stop Date/Time:                                           | 02-17-10<br>1168 | Stop Date/Time:                                           | 02~17-10<br>1055   | Stop Date/Time:                     |  |  |  |
| Stop Pressure (*Hg):                                      | -1                                                                                               | Stop Pressure ("Hg):                                      | -1               | Stop Pressure ("Hg):                                      | Ø                  | Stop Pressure ("Hg):                |  |  |  |
| Sample ID:<br>130043 K-SS                                 | -6                                                                                               | Sample ID:<br>1300431-                                    | -55-102          | Sample iD:<br>\SW43k-9                                    | 55-03              | Sample ID:                          |  |  |  |
|                                                           |                                                                                                  | Othe                                                      | r Sampling       | Information:                                              | _                  | 1                                   |  |  |  |
| Finished Basement,<br>Crawl Space, Unfinished<br>Basement | No believed<br>Ground<br>Floor.                                                                  | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | office           | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | 94 1992            | Direction from Building:            |  |  |  |
| Floor Slab Thickness:                                     | 8 inch                                                                                           | Floor Slab Thickness:                                     | الن) د           | Floor Slab Thickness:                                     | ~\$P"              | Distance from<br>Building:          |  |  |  |
| Potential Vapor Entry<br>Points:                          |                                                                                                  | Potential Vapor Entry<br>Points:                          | none.            | Potential Vapor Entry<br>Points:                          | none               | Distance from<br>Apadway:           |  |  |  |
| Floor Surface:                                            | Consider                                                                                         | Ftoor Surface:                                            | (Sherete la      | Floor Surface:                                            | ancrete            | Ground Syrface:                     |  |  |  |
| Noticable Odor:                                           | Nore                                                                                             | Noticable Odor:                                           |                  | Noticable Odor:                                           | na                 | Noticable Odor:                     |  |  |  |
| PID Reading (ppb):                                        | 1300дом                                                                                          | PID Reading (ppb):                                        | 702              | PID Reading (ppb):                                        | 77                 | PID Reading (ppb)                   |  |  |  |
| Intake Depth/Height:                                      | ''                                                                                               | Intake Depth/Height:                                      | /* \$            | Intake Depth/Height:                                      | ~8-5 ¹¹ | Intake Height Above Cround Surface: |  |  |  |
| Helium Test Conducted?<br>Breakthrough %:                 |                                                                                                  | Helium Test<br>Conducted?                                 |                  | Helium Test<br>Conducted?                                 |                    | Intake Tubing Used?                 |  |  |  |
| Comments/Location                                         | Sketch:                                                                                          |                                                           |                  |                                                           |                    |                                     |  |  |  |

MACTEC
511 Congress Street, Portland, ME 04101

|                                  |                  | INDOOR                           | AIR SAMI         | PLING RECORE                     | )            |                                        |          |
|----------------------------------|------------------|----------------------------------|------------------|----------------------------------|--------------|----------------------------------------|----------|
| Project Name:                    | OIA              | Client:                          | NYSD             | ev                               | Location ID: | Structure 1                            | 1        |
| Project Number:                  | 4120921          | 27 Collector:                    | ∌ ડા             | rad                              | Date:        | 02-16-2010                             |          |
|                                  |                  | SUMMA                            | Canister Re      | cord Information:                |              |                                        |          |
| INDOOR AIR SA                    | MPLE             | INDOOR AIR S                     | AMPLE            | INDOOR AIR S                     | AMPLE        | ASSOCIATED A                           | MBLENT   |
| Flow Regulator No:               | 41               | Flow Regulator No:               | 123              | Flow Regulator No:               |              | Flow Regulator No:                     | 176      |
| Flow Rate (mDmin):               |                  | Flow Rate (mL/min):              |                  | Flow Rate (m⊡/min);              |              | Flow Rate (mL/min):                    |          |
| Canister Serial No:              | 286              | Canister Serial No:              | 1 1 1            | Canister Serial No:              |              | Canister Senal No:                     | 87       |
| Start Date/Time:                 | 02-16-10<br>1543 | Start Date/Time:                 | 1671             | Stan Pate/Time:                  |              | Start Date/Time:                       | 1635     |
| Start Pressure ("Hg):            | -26              | Start Pressure ("Hg):            | -29              | Start Pressure (*Hg):            |              | Start Pressure ("Hg):                  | -28      |
| Stop Date/Time:                  | 17:29            | Stop Date/Time:                  | 14:39            | Stop Date/Time:                  | '            | Stop Date/Time:                        | 62-17-10 |
| Stop Pressure ("Ag):             | Althoury         | Stop Pressure ("Hg):             |                  | Stop Pressure ("Hg):             |              | Stop Pressure ("Hg):                   |          |
| Sample ID:<br>130643N - IA - 1   | 1 1              | Sample ID:<br>130043N-IA         | -02              | Sample ID:                       |              | Sample ID:<br> 30043 - AA              | -62.     |
|                                  |                  | Othe                             | r Sampling       | Information:                     | ,            |                                        |          |
| Story/Level:                     | 13               | Story/Level:                     | 154              | Story/Level:                     |              | Direction from<br>Building:            | 2        |
| Room:                            | Willing Musse    | Room:                            | wavelow          | Room:                            |              | Distance from<br>Building:             | ~5"      |
| Potential Vapor Entry<br>Points: | Synth duch       | Potential Vapor Entry<br>Points: | draftly<br>AboVV | Potential Vapor Entry<br>Points: |              | Distance from<br>Roadway:              | ~500°    |
| Floor Surface:                   | Concrete         | Floor Surface:                   | Concre te        | Floor Surface:                   |              | Ground Surface:                        | Snow     |
| Noticable Odor:                  | hone             | Noticable Odor:                  | none             | Noticable Odor:                  |              | Noticable Odor:                        | none     |
| PID Reading (ppb):               | 220              | PID Reading (ppb):               | i50              | PID Reading (ppd):               |              | PID Reading (ppb):                     | ا.ما     |
| . Intake Height:                 | <b>√3</b> ¹      | Intake Height:                   | ~31              | intake Height:                   |              | Intake Height Above<br>Ground Surface: |          |
| Indoor Air Temp:                 | -156             | Indoor Air Temp:                 | 114.0            | Indoor Air Temp:                 |              | Intake Tubing ವಿsea?                   |          |
| Comments/Location                | Sketch:          |                                  |                  |                                  |              |                                        |          |
|                                  |                  |                                  |                  |                                  |              |                                        |          |
|                                  |                  |                                  |                  |                                  |              |                                        |          |
|                                  |                  |                                  |                  |                                  |              |                                        |          |
| <b>#</b> 17 / / /                |                  | TC                               |                  |                                  |              |                                        |          |
| MMA                              |                  |                                  |                  |                                  | INDOOR       | AIR SAMPLING                           | RECORD   |
| 511 Congress St                  | treet, Portlan   | d, ME 04101                      |                  |                                  |              |                                        |          |

|                                                           |            | INDOOR                                                    | AID SANI       | PLING RECORE                                              | `                  |                                        |                 |  |  |  |
|-----------------------------------------------------------|------------|-----------------------------------------------------------|----------------|-----------------------------------------------------------|--------------------|----------------------------------------|-----------------|--|--|--|
| 1 1 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                   | 101A       | Client:                                                   | N/SDEC<br>B Sh | /                                                         | Location ID:       | Structure                              | ļ'              |  |  |  |
| Project Number: <u> </u>                                  | 41 DUN F17 | Collector:_                                               | D D D          |                                                           | Date:              | -16-2010-                              | <u> </u>        |  |  |  |
| SUMMA Canister Record Information:                        |            |                                                           |                |                                                           |                    |                                        |                 |  |  |  |
| SUBSLAB SOIL VAPO                                         | OR SAMPLE  | SUBSLAB SOIL VAP                                          | OR SAMPLE      | SUBSLAB SOIL VAR                                          | OR SAMPLE          | ASSOCIATED A                           | MBIENT          |  |  |  |
| Flow Regulator No                                         | ફિલ્લા     | Ftow Regulator No:                                        | 492            | Flow Regulator No:                                        | 687                | Flow Regulator No:                     | 176             |  |  |  |
| Flow Rate (mD/min):                                       | ≈0.7       | Flow Rate (mL/min):                                       | <b>≈</b> 6.7   | Flow Rate (m⊔/min);                                       | ≈ 0.>              | Flow Rate (mL/min):                    | ≈0.7            |  |  |  |
| Canister Serial No:                                       | וייו       | Canister Serial No:                                       | 140            | Canister Serial No:                                       | 238                | Canister Serial No:                    | 87              |  |  |  |
| Start Date/Time:                                          | 1541       | Start Date/Time:                                          | 16 19          | Start Date/Time:                                          | म्<br>१५५५<br>१५५५ | Start Date/Time:                       | 1635            |  |  |  |
| Start Pressure ("Hg):                                     | -29        | Start Pressure ("Hg):                                     | - 29           | Start Pressure ("Hg):                                     | -29                | Start Pressure ("Hg):                  | 28              |  |  |  |
| Stop Date/Time:                                           | 02-11-10   | Stop Date/Time:                                           | 02-11-10       | Stop Date/Time:                                           | 14:34              | Stop Date/Time:                        | 1448            |  |  |  |
| Stop Pressure ("Hg):                                      | ~5         | Stop Pressure ("Hg):                                      | -3             | Stop Pressure ("Hg):                                      | -6                 | Stop Pressure ("Hg):                   | 1               |  |  |  |
| Sample ID:<br>\38043\\-55-0                               | i.         | Sample ID:<br>130043N-59                                  | 5-02           | Sample ID:<br>130043 N - 59                               | 5 ~03              | Sample ID:<br>130043 AA・               | 02              |  |  |  |
|                                                           |            | Othe                                                      | r Sampling     | Information:                                              |                    |                                        |                 |  |  |  |
| Finished Basement,<br>Crawl Space, Unfinished<br>Basement | ware news  | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | Warehoka       | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | Warehovill         | Direction from<br>Building:            | 7               |  |  |  |
| Floor Slab Thickness:                                     | 14k        | Ftoor Stab Thickness:                                     | ^5.5*          | Floor Slab Thickness:                                     | 75,5               | Distance from<br>Building:             | ^5 ¹ |  |  |  |
| Potential Vapor Entry<br>Points:                          | 15 20117 6 | Potential Vapor Entry<br>Points:                          | (racks         | Potential Vapor Entry<br>Points:                          | 16 (4) 2 / .       | Distance from<br>Roadway:              | ~500°           |  |  |  |
| Floor Surface                                             | conorde    | Floor Surface:                                            | Concrete       | Floor Surface:                                            | concrete           | Ground Surface:                        | Shar            |  |  |  |
| Noticable Odor                                            | na         | Noticable Odor:                                           | ክላ             | Noticable Odor:                                           | na                 | Noticable Odor:                        | None            |  |  |  |
| PID Reading (ppb)                                         | 264.       | PtD Reading (ppb):                                        | 2590           | PID Reading (ppb):                                        | 570                | PID Reading (ppb):                     | 40-1            |  |  |  |
| Intake Depth/Height                                       | L. '       | Intake Depth/Height:                                      | ' '            | Intake Depth/Height:                                      |                    | Intake Height Above<br>Ground Surface: | ~ 3'            |  |  |  |
| Helium Test Conducted?<br>Breakthrough %                  | Jes - mais | Helium Test<br>Conducted?                                 |                | Helium Test<br>Conducted?                                 |                    | Intake Tubing Used?                    | 7               |  |  |  |
| Comments/Location                                         | n Sketch:  |                                                           |                |                                                           |                    |                                        |                 |  |  |  |

511 Congress Street, Portland, ME 04101

| ject Name: <b>N</b>               | CIA                             | Client:                          | NYSO                    | EC                               | Location ID                                       | Structure 1<br>-17-2010                |                   |
|-----------------------------------|---------------------------------|----------------------------------|-------------------------|----------------------------------|---------------------------------------------------|----------------------------------------|-------------------|
| ject Number: 3                    | (120921)                        | Collector:                       | Breada                  | - Nema-                          | Date: <u>0                                   </u> | -/7-70/0                               |                   |
| · ·                               |                                 | SUMMA                            | Canister Re             | cord Information:                |                                                   |                                        |                   |
| INDOOR AIR SA                     | MPLE                            | INDOOR AIR S                     | AMPLE                   | \ INDOOR AIR S                   | SAMPLE                                            | ASSOCIATED A                           | MBIENT :          |
| Flow Regulator No:                | 392                             | Flow Regulator No:               | 337                     | Apw Regulator No:                |                                                   | Flow Regulator No:                     | 68                |
| Flow Rate (mL/min):               |                                 | Flow Rate (m'_min):              |                         | Flow Rate (mL/min):              |                                                   | Flow Rate (mL/min):                    |                   |
| Canister Serial No:               | 420                             | Canister Serial No:              | 465                     | Caniste Senal No:                |                                                   | Canister Serial No:                    | 326               |
| Start Date/Time:                  | {3:}3<br><del>03-13−30</del> 10 | Start Date/Time:                 | 13:57                   | Start Date/Time:                 |                                                   | Start Date/Time:                       | 03-77-10<br>34:61 |
| Start Pressure ("Hg):             | -)9                             | Start Pressure ("Hg):            | -92-                    | Start Pressure ("Ng):            |                                                   | Start Pressure (*Hg):                  | ->31 3            |
| Stop Date/Time:                   | 2/R110<br>13:32                 | Stop Date/Time:                  | 12:57                   | Stop Date/Time:                  |                                                   | Stop Date/Time:                        | 12:46             |
| Stop Pressure ("Hg):              | `4                              | Stop Pressure ("Hg):             |                         | Stop Pressure ("Hg);             |                                                   | Stop Pressure ("Hg):                   | 70                |
| nple ID:<br>(300 43 <i>V ー</i> エみ | -07                             | Sample ID:<br> 30043レーエA         |                         | Sample ID:                       | -                                                 | Sample ID:<br>/30043V - AA             | -01               |
|                                   | ·                               | Othe                             | r Sampling              | Information;                     |                                                   | · ·                                    |                   |
| Story/Level:                      | 134                             | Story/Level:                     | 144                     | Story/Level:                     |                                                   | Direction from<br>Building:            | South             |
| Room:                             | pareleuje.                      | Room:                            | uare-<br>heyse          | Rnom:                            |                                                   | Distance from<br>Building:             | 30 <del>/ /</del> |
| Potentral Vapor Entry<br>Points:  | ner                             | Potential Vapor Entry<br>Points: | ا حسلم عا ا             | Potential Vapor Entry<br>Points: |                                                   | Distance from<br>Roadway:              | 1004              |
| Floor Surface:                    | concrete                        | Ftoor Surface:                   | paint - fin<br>Concrete | Floor Syrface:                   |                                                   | Ground Surface:                        | asplut            |
| Neticable Odor:                   | hohe                            | Noticable Odor:                  | Ī                       | Noticable Odor:                  |                                                   | Noticable Odor:                        | No ka             |
| PID Reading (ppb):                | 238                             | PID Reading (ppb):               | 350                     | PID Reading (ppb):               |                                                   | PID Reading (ppb):                     | 65                |
| Intake Height:                    | 344                             | intake Height:                   | 54                      | Intake Height:                   |                                                   | Intake Height Above<br>Ground Surface: | 4.5+              |
|                                   |                                 |                                  | 76°F                    |                                  | <del>\</del>                                      | 1 -                                    | ν.                |



| INDOOR AIR SAMPLING RECORD                                          |                            |                                                           |                      |                                                           |              |                                        |                             |  |  |
|---------------------------------------------------------------------|----------------------------|-----------------------------------------------------------|----------------------|-----------------------------------------------------------|--------------|----------------------------------------|-----------------------------|--|--|
| Project Name:                                                       | NCIA                       |                                                           | YSDEC                |                                                           | Location ID: | Struturo V                             |                             |  |  |
| Project Number: 3/2-093/37 Collector: Braula Newsca Date: 03-17-200 |                            |                                                           |                      |                                                           |              |                                        |                             |  |  |
| SUMMA Canister Record Information: Duplicate SS                     |                            |                                                           |                      |                                                           |              |                                        |                             |  |  |
| SUBSLAB SOIL VAPO                                                   | RSAMPLE                    | SUBSLAB SOIL VAP                                          | OR SAMPLE            | SUBSLAB SOIL VAP                                          | OR SAMPLE    | ASSOCIATED A                           | BIENT                       |  |  |
| Flow Regulator No:                                                  | 684                        | Flow Regulator No:                                        | 379                  | Flow Regulator No:                                        | 436          | Flow Regulator No:                     | 379                         |  |  |
| Flow Rate (mDmin).                                                  |                            | Flow Rate (mL/min):                                       |                      | Flow Rate (mt/min):                                       |              | Flow Rate (mL/min):                    |                             |  |  |
| Canister Serial No:                                                 | 600                        | Canister Sena! No:                                        | 101                  | Canister Serial No:                                       | 300          | Canister Serial No:                    | 283                         |  |  |
| Start Date/Time:                                                    | 11:30<br>05-15-500         | Start Date/Time:                                          | 11:48                | Start Date/Time:                                          | 1):08        | Start Date/Time:                       | 11: <b>11%</b><br>03-12-34  |  |  |
| Start Pressure ("Hg):                                               | -78                        | Start Pressure (*Hg):                                     | -78                  | Start Pressure (*Hg):                                     | //           | Start Pressure ("Hg):                  | - >8                        |  |  |
| Stop Date/Time:                                                     | 2/18/10<br>1 <b>8</b> 7:30 | Stop Date/Time:                                           | 118116               | Stop Date/Time:                                           | 1228         | Stop Date/Time                         | 2/18/10<br>18 <b>/2</b> /28 |  |  |
| Stop Pressure ("Hg):                                                | رکر                        | Stop Pressure ("Hg):                                      | < <u>1</u>           | Stop Pressure ("Hg):                                      | -8           | Stop Pressure ("Hg):                   | <1                          |  |  |
| Sample ID:<br> 30043 V 55-01                                        | ! <u></u>                  | Sample ID:<br>                                            | ,                    | Sample ID:<br>130043 V-55-                                | 63           | Sample ID:<br>1300431/-55-(            | رمور                        |  |  |
|                                                                     |                            | Othe                                                      | r Sampling           | Information:                                              |              | <u> </u>                               |                             |  |  |
| Finished Basement,<br>Crawl Space, Unfinished<br>Basement           |                            | Finished Basement,<br>Crawl Space,<br>Unfinished Basement | Note                 | Finished Basement,<br>Crawl Space,<br>Unfinished Basement |              | Direction from<br>Building:            | None                        |  |  |
| Floor Slab Thickness:                                               | 6 inch                     | Floor Slab Thickness:                                     | 6 jud                | Floor Slab Thickness:                                     | 6 red        | Distance (vom<br>Buil <b>y</b> ling:   | 6 14                        |  |  |
| Potential Vapor Entry<br>Points:                                    | unha                       | Potential Vapor Entry<br>Points:                          | none                 | Potentia: Vapo: Entry<br>Points:                          | 1 2000       | Distance from<br>Roadway:              | Mine                        |  |  |
| Floor Surface                                                       | Concrete                   | Floor Surface:                                            | part livid<br>wherek | Floor Surface:                                            | part-Ah      | Ground/Surface:                        | pant-fair<br>concrete       |  |  |
| Noticable Odor:                                                     | whe                        | Noticable Odor:                                           |                      | Noticable Odor:                                           | hohe         | Noticable Odor:                        | An HL                       |  |  |
| PID Reading (ppb)                                                   | 1172                       | PID Reading (ppb):                                        | 2000                 | PID Reading (ppb):                                        | 1650         | PID Reading (ppb):                     | 2000                        |  |  |
| Intake Depth/Height                                                 | 0 men                      | Intake Depth/Height:                                      | 0164                 | Intake Depth/Height:                                      | V 11-4-1     | Intake Height Above<br>Ground Surface: | 8 he                        |  |  |
| Helium Test Conducted?<br>Breakthrough %                            | Yey0.042                   | Helium Test<br>Conducted?                                 |                      | Helium Test<br>Conducted?                                 | 1 47         | ntake Tubing Used?                     | No                          |  |  |
| Comments/Locatio                                                    | n Sketch:                  |                                                           |                      |                                                           |              |                                        |                             |  |  |
| Reached 100%                                                        | Holium :                   | atuallos is a                                             | enclosure.           |                                                           |              |                                        |                             |  |  |
| Dughtake tak                                                        | er act 55-                 | 01                                                        |                      |                                                           |              |                                        |                             |  |  |



## APPENDIX B

STRUCTURE INSPECTION/INVENTORY AND QUESTIONNAIRE

# NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

| Preparer's Name 1         | Holler Brander        | Neuman Date/Time Prepared 1 | 1730     |
|---------------------------|-----------------------|-----------------------------|----------|
|                           | -                     | Phone No. 207 7             | •        |
| Purpose of Investigation  | Vapor In              | MECSIE # 1100/18A)          |          |
| 1. OCCUPANT:              | , - , ,               |                             |          |
| Interviewed: V N          |                       |                             |          |
| Last Name: Parkin         | <u> Firs</u>          | t Name: Cleous              | _        |
| Address: 570              | Main St.              | t Name: Cleous (75 Rushmore | 24.)     |
| County: Nassau            |                       |                             |          |
|                           |                       | hone: 516 333-2501          |          |
| Number of Occupants/pers  | ons at this location  | Age of Occupants 18 4       | <u></u>  |
| 2. OWNER OR LANDLO        | ORD: (Check if same   | as occupant)                |          |
| Interviewed; Y/N          |                       |                             |          |
| Last Name;                | First                 | Name:                       |          |
| Address;                  |                       |                             | <u>.</u> |
| County:                   |                       |                             |          |
| Home Phone;               | Office P              | Phone:                      |          |
| 3. BUILDING CHARAC        | TERISTICS             |                             |          |
| Type of Building: (Circle | appropriate response) |                             |          |
| Residential               | School (              | Commercial/Multi-use        |          |

| If the property is residenti                           | at, type? (Circle appropr                                              | riate response)                                                    |                                       |
|--------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------|
| Ranch<br>Raised Ranch<br>Cape Cod<br>Duplex<br>Modular | 2-Pamily<br>Split Level<br>Contemporary<br>Apartment House<br>Log Home | 3-Family<br>Colonial<br>Mobile Home<br>Fownhouses/Condos<br>Other: |                                       |
| If multiple units, how man                             | y?                                                                     |                                                                    |                                       |
| If the property is commerc                             |                                                                        |                                                                    |                                       |
| Business Type(s)                                       | cational Arto Sch                                                      | ed / File Starage / Sw                                             | nimming Fredty / Audo St              |
| Does it include resident                               | es (i.e., multi-use)? · Y                                              | N If yes, how many                                                 | ·                                     |
| Other characteristics:                                 |                                                                        |                                                                    |                                       |
| Number of floors                                       | _ Bui                                                                  | ilding age                                                         |                                       |
| Is the building insulated                              | 1? Y (N) Ho                                                            | wair tight? Tight Average                                          | Not Tight                             |
| 4. AIRFLOW                                             |                                                                        |                                                                    |                                       |
| Use air current tubes or tr                            | acer smoke to evaluate                                                 | airflow patterns and qualita                                       | tively describe:                      |
|                                                        |                                                                        |                                                                    |                                       |
| Airflow between floors                                 |                                                                        | •                                                                  |                                       |
|                                                        |                                                                        |                                                                    |                                       |
| <del>-</del>                                           |                                                                        | _ <del></del> .                                                    | · · · · · · · · · · · · · · · · · · · |
| Airflow near source                                    |                                                                        |                                                                    |                                       |
|                                                        | _ <del></del> .                                                        |                                                                    | <u>_</u>                              |
|                                                        |                                                                        | <del></del>                                                        |                                       |
|                                                        | ·                                                                      | -                                                                  |                                       |
| Outdoor air infiltration                               |                                                                        |                                                                    |                                       |
|                                                        |                                                                        |                                                                    | <del></del>                           |
|                                                        |                                                                        |                                                                    |                                       |
| Infiltration into air ducts                            |                                                                        |                                                                    |                                       |
|                                                        |                                                                        | · <del></del>                                                      |                                       |

| <ol> <li>a. Above grade construction:</li> </ol>                                                                                                  | wood frame                                                                    | concrete        | Stone                                           |                               | prick   | Concrete bloc                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------|-------------------------------------------------|-------------------------------|---------|---------------------------------------|
| b. Basement type:                                                                                                                                 | ful:                                                                          | crawlspac       | e slab                                          | ·                             | other   |                                       |
| c. Basement Roor:                                                                                                                                 | concrete                                                                      | dirt            | stone                                           | ;                             | other   |                                       |
| d. Basement floor:                                                                                                                                | uncovered                                                                     | covered         | cove                                            | red with                      |         | ••••                                  |
| e. Concrete floor:                                                                                                                                | unstaled                                                                      | ) dec           | seale                                           | d with                        |         |                                       |
| f. Foundation walls:                                                                                                                              | poured                                                                        | block           | stone                                           | :                             | other   | , <del></del> -                       |
| g. Foundation walls:                                                                                                                              | unsealed                                                                      | scaled          | seale                                           | d with                        |         |                                       |
| h. The basement is:                                                                                                                               | wet                                                                           | damp            | dry                                             | >                             | moldy   |                                       |
| i. The basement is:                                                                                                                               | finished                                                                      | unfinishe       | d) parti                                        | ally finished                 | i       |                                       |
| j. Sump present?                                                                                                                                  | Y/N                                                                           | Floor           | drain                                           | @ b. H                        | on of   | stairs                                |
| k. Water in sump? Y                                                                                                                               | /N/not applicab                                                               | ile             |                                                 |                               |         |                                       |
|                                                                                                                                                   |                                                                               |                 |                                                 |                               |         |                                       |
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| ,                                                                                                                                                 |                                                                               | •               |                                                 |                               |         |                                       |
| Type of heating system(s) used i                                                                                                                  | n this building: (<br>Heat pump                                               | circle all that | apply – no<br>lot water b                       | te primary)<br>aseboard       |         | · · · · · · · · · · · · · · · · · · · |
| Type of heating system(s) used i                                                                                                                  | n this building: (                                                            | circle all that | apply – no                                      | te primary)<br>aseboard<br>ar | Other _ |                                       |
| Hot air circulation Space Heating Electric baseboard                                                                                              | n this building: (<br>Heat pump<br>Stream rad<br>Wood stov                    | circle all that | apply – no<br>Hot water b<br>Radiant floo       | te primary)<br>aseboard<br>ar |         | · · · · · · · · · · · · · · · · · · · |
| Space Heaters                                                                                                                                     | n this building: (<br>Heat pump<br>Stream rad<br>Wood stov                    | circle all that | apply – no<br>Hot water b<br>Radiant floo       | te primary)<br>aseboard<br>ar |         |                                       |
| Type of hearing system(s) used in Hot air circulation Space Heaters Electric baseboard The primary type of fuel used is Natural Gas Electric      | Heat pump<br>Stream rad<br>Wood stov<br>:<br>Fuel Oil<br>Propane<br>Coal      | circle all that | apply – no  Hot water b Radiant floo Dutdoor wo | te primary)<br>aseboard<br>ar |         |                                       |
| Hot air circulation Space Heaters Electric baseboard  The primary type of fuel used is  Natural Gas Electric Wood  Domestic hot water tank fueled | Heat pump<br>Stream rad<br>Wood stov<br>:<br>:<br>Fuel Oil<br>Propane<br>Coal | circle all that | apply – no  Hot water b Radiant floo Dutdoor wo | te primary)<br>aseboard<br>ar | Other   | In Eurowin                            |

| Are there air distribution ducts |
|----------------------------------|
|----------------------------------|

i. Have cosmetic products been used recently?



| Describe the supply and cold air return ductwork, and its c<br>here is a cold air return and the tightness of duct joints. In<br>liagram. |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|                                                                                                                                           |                                         |
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| ·                                                                                                                                         | <del> </del>                            |
| OCCUPANCY                                                                                                                                 |                                         |
| s basement/lowest level occupied? Full-time Occas                                                                                         | sionally Seldom Almost Never            |
| Level General Use of Each Floor (e.g., familyroo                                                                                          | m, bedroom, laundry, workshop, storage) |
| Basement 5-force                                                                                                                          |                                         |
| Auto repair, computer                                                                                                                     | work stations, whee, classions, restron |
| P ^{od} Floor                                                                                                                     |                                         |
| IM Floor                                                                                                                                  |                                         |
|                                                                                                                                           | <u></u>                                 |
| th Floor                                                                                                                       | ·                                       |
| 3. FACTORS THAT MAY INFLUENCE INDOOR AIR (                                                                                                | UALITY                                  |
| a. Is there an attached garage?                                                                                                           | Ю́н                                     |
| b. Does the garage have a separate heating unit?                                                                                          | Y / NA                                  |
| c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)                                            | N / NA<br>Please specify                |
| d. Has the building ever had a fire?                                                                                                      | Y/N When?                               |
| e. Is a kerosene or unvented gas space beater present?                                                                                    | Y/N Where?                              |
| f. Is there a workshop or hobby/craft area?                                                                                               | Y / N Where & Type?                     |
| g. Is there smoking in the building?                                                                                                      | Y N How frequently?                     |
| h. Have cleaning products been used recently?                                                                                             | ON When & Type? Dady                    |

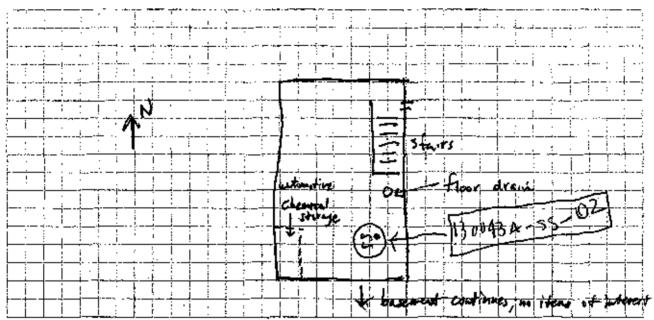
Y / N When & Type? ____

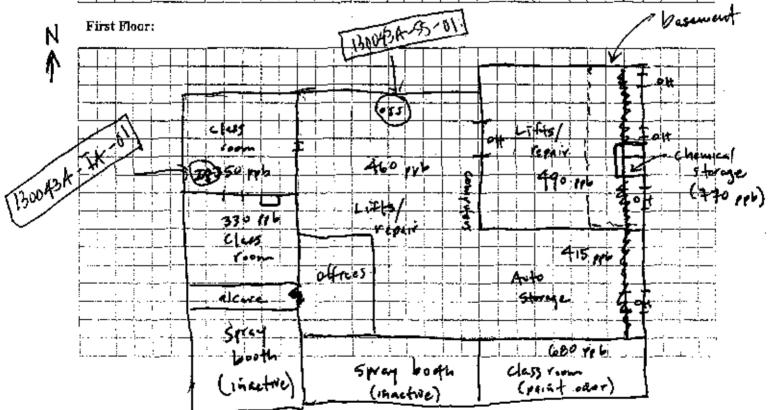
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| j. Has painting/staining been done in the last 6 months?                                                                                                                   | ON Where & When?                            |
| k. Is there new carpet, drapes or other textiles?                                                                                                                          | Y / Where & When?                           |
| l. Have air fresheners been used recently? .                                                                                                                               | ON When & Type?                             |
| m. Is there a kitchen exhaust fap?                                                                                                                                         | ON If yes, where vented? out > 1            |
| n. Is there a bathroom exhaust fan?                                                                                                                                        | Y / N If yes, where vented?                 |
| o. Is there a clothes dryer?                                                                                                                                               | Y / 👽 If yes, is it vented outside? Y / N   |
| p. Has there been a pesticide application?                                                                                                                                 | Y When & Type?                              |
| Are there odors in the building?  If yes, please describe:  Solveof 5                                                                                                      | ØN .                                        |
| Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic ar boiler mechanic, pesticide application, cosmetologist |                                             |
| If yes, what types of solvents are used?                                                                                                                                   | <u></u>                                     |
| If yes, are their clothes washed at work?                                                                                                                                  | Y/N P/A                                     |
| Do any of the building occupants regularly use or work at response)                                                                                                        | a dry-cleaning service? (Circle appropriate |
| Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service                                          | Unknown                                     |
| Is there a radon mitigation system for the building/structure.  Is the system active or passive? Active/Passive                                                            | re? Y / Date of Installation:               |
| 9. WATER AND SEWAGE                                                                                                                                                        |                                             |
| Water Supply: Public Water Drilled Well Drive                                                                                                                              | on Well Dug Weil Other:                     |
| Sewage Disposal: Public Sewer Septic Tank Leac                                                                                                                             | h Field Dry Well Other:                     |
| 10. RELOCATION INFORMATION (for oil spill resident                                                                                                                         | tial emergency)                             |
| a. Provide reasons why relocation is recommended:                                                                                                                          | NIA                                         |
| b. Residents choose to: remain in home relocate to fi                                                                                                                      | riends/family relocate to hotel/motel       |
| c. Responsibility for costs associated with reimbursem                                                                                                                     | ent explained? Y/N                          |
| d. Relocation package provided and explained to resid                                                                                                                      | lents? Y/N                                  |
|                                                                                                                                                                            |                                             |

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

ó

#### Basement:





# 12, OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

| Roser                                 | to attack                               | A Algune                   | L. PJA                                           | 12/29/09                                | · · · · · · · · · · · · · · · · · · · | ······································       |
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## 13. PRODUCT INVENTORY FORM

| Make & Model of field instrument used: | 200 | RAE |  |
|----------------------------------------|-----|-----|--|
|                                        | 11  |     |  |

List specific products found in the residence that have the potential to affect indoor air quality.

| Location         | Product Description                                   | Size<br>(units) | Condition* | Chemical Ingredients | Field<br>Instrument<br>Reading<br>(units) | Photo Y/N      |
|------------------|-------------------------------------------------------|-----------------|------------|----------------------|-------------------------------------------|----------------|
| Change           | Silicon Granket +                                     | l<br>L          | i<br>!     |                      | <u> </u>                                  | <br>           |
| ti .             | Sealant<br>Bleach                                     |                 |            |                      |                                           |                |
| ч                | Pinesol                                               |                 |            |                      | <u> </u>                                  |                |
| U                | glass cleaner                                         |                 |            | "Sopropy alcohol     | 700                                       |                |
| ír               | degreaser                                             |                 |            |                      |                                           |                |
| r .              | degreaser<br>brake cleaning fluis                     |                 |            |                      |                                           | _              |
| Chem:<br>Starage | Bathroon cleaner                                      |                 |            |                      | _                                         | _              |
| Basement         | Throttle Buly Clean                                   | ær              | Uo         | Toluene              | <b>∱</b> ••                               |                |
| ft.              | Brake + Parts Cleaner                                 | l               | ه ت        | Acctone              |                                           | <u> </u>       |
|                  | Motor Oil                                             |                 | ٥٥         |                      |                                           | <u> </u>       |
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^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.



MACTEC Engineering and Consulting, Inc. 107 Audubon Road, Bldg. 2, Suite 30! Wakefield, MA 01880

| JOB NON4A          | SHEET ! OF !  |
|--------------------|---------------|
| PHASE 3612-092127- | TASK 01.01    |
| JOB NAME _ 570 MAN |               |
| ву Рзи             | DATE 12:29:49 |
| CHECKED BY         | DATE          |

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| <br> | Chr          | U Ramsley    | (603) 924 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4100 at                                | H-1 + A5502          | - They -                              | echimed  | clean - up.                           |
|      |              | Lamarca C    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        | :                    | <u>i</u>                              | •        | <u> </u>                              |
| <br> | Voc.         | Honal School | l is large                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | and an-                                | i<br>I contractat    | Sub-stab i                            | point is | appropri te                           |
| ĺ    | 55 -         | proporta     | Sub-Stakes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | eif report So                          | folion for from      | <del> </del>                          |          |                                       |
|      | IA-          | - proposed   | indoor air                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sampling                               | location             |                                       |          |                                       |

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# NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

| Preparer's Name           | Muller Bran           | don Newwan Date/Time Prep                | pared 2.5.10 /183 |
|---------------------------|-----------------------|------------------------------------------|-------------------|
|                           | •                     | Phone No. <b>20</b>                      | , ,               |
| Purpose of Investigation_ | Vapor T.              | frusion Investigation  [776 + 1300 (134) |                   |
| 1. OCCUPANT:              | No interview          | (\$WDA)                                  |                   |
| Interviewed: Y/N          | ,                     |                                          |                   |
| Last Name:                |                       | First Name:                              |                   |
| Address:                  |                       | <del></del>                              |                   |
| County:                   |                       |                                          |                   |
|                           |                       | ce Phone:                                | _                 |
| Number of Occupants/per   | sons at this location | n Age of Occupants                       | ·                 |
| 2. OWNER OR LANDL         | ORD: (Check if:       | same as occupant)                        |                   |
| Interviewed: Y/N          |                       |                                          |                   |
| Last Name:                |                       | First Name:                              | <u></u>           |
| Address:                  | •                     |                                          |                   |
| County:                   | <del></del>           |                                          |                   |
| Ноте Рһолс;               | Off                   | ice Phone:                               | _                 |
|                           |                       |                                          |                   |
| 3. BUILDING CHARAG        | CTERISTICS            |                                          |                   |
| Type of Building: (Circle | e appropriate respo   | onse)                                    |                   |
| Residential               | School<br>Church      | Commercial/Multi-use                     |                   |

| If the property is resident | iaI, type? (Circle appropria | atcresponse) N∫A       | <b>k</b>                              |
|-----------------------------|------------------------------|------------------------|---------------------------------------|
| Ranch<br>Raised Ranch       | 2-Family<br>Split Level      | 3-Family<br>Colonial   | •                                     |
| Cape Cod                    | Contemporary                 | Mobile Home            |                                       |
| Duplex                      | Apartment House              |                        | <b>.</b>                              |
| Modular                     | Log Home                     | Other:                 |                                       |
| If multiple units, how man  | ny?                          |                        |                                       |
| If the property is commer   | rcial, type?                 |                        | ф //                                  |
|                             | Saf T Swim                   | _                      |                                       |
| Does it include residen     | nces (i.e., multi-use)? Y    | If yes, how i          | вапу?                                 |
| Other characteristics:      | •                            |                        |                                       |
| Number of floors            | Build                        | ding age               |                                       |
| Is the building insulate    | d? Y <b>(N</b> ) How         | air tight? Tight Aver  | age / Not Tight                       |
| 4. AIRFLOW                  |                              |                        |                                       |
| Use air current tubes or t  | racer smoke to evaluate s    | irflow patterns and qu | ialitatively describe:                |
|                             |                              |                        |                                       |
| Airflow between floors      | HA                           |                        |                                       |
|                             |                              |                        |                                       |
|                             |                              | ·····                  | · · · · · · · · · · · · · · · · · · · |
| Airflow near source         |                              |                        |                                       |
| Author Hear Source          |                              |                        | i                                     |
|                             |                              | ·                      |                                       |
|                             |                              |                        |                                       |
|                             |                              |                        |                                       |
| Outdoor air infiltration    |                              |                        |                                       |
|                             |                              | :                      |                                       |
|                             |                              |                        | <del></del>                           |
|                             |                              | <del></del>            | <del></del>                           |
| Infiltration into air ducts |                              |                        |                                       |
|                             |                              |                        |                                       |
|                             |                              |                        |                                       |
|                             |                              |                        |                                       |

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apoly)

| a. Above grade construction:         | wood frame                | concrete                              | stone                        | brick Concrete Houl |
|--------------------------------------|---------------------------|---------------------------------------|------------------------------|---------------------|
| b. Basement type:                    | full                      | crawlspace                            | sl <b>a</b> b                | other Nout          |
| c. Basement floor:                   | concrete                  | dia                                   | stone                        | other N/A           |
| d. Basement floor: V/A               | uncovered                 | covered                               | covered with                 |                     |
| e. Concrete floor:                   | unsealed                  | sealed                                | sealed with                  |                     |
| f. Foundation walls;                 | coured                    | biock                                 | stone                        | other               |
| g. Foundation walls:                 | insealed                  | sealed                                | sealed with                  |                     |
| h. The basement is: 11/K             | wet                       | damp                                  | dry                          | moldy               |
| i. The basement is: N/A              | finished                  | unfinished                            | partially finish             | red.                |
| j. Sump present? N/A                 | Y/N                       |                                       |                              |                     |
| k. Water in sump? Y/N                | V / npt applicable        | )                                     |                              |                     |
| asement/Lowest level depth below     | erade:                    | (feet) at                             | grade                        |                     |
|                                      | _                         | _` ′                                  |                              |                     |
| dentify potential soil vapor entry p | oomis and appro           | ximate size (e.ş                      | g., cracks, utility          | ports, drains)      |
|                                      |                           | · .                                   |                              |                     |
| i tou                                |                           |                                       |                              |                     |
| cracks, utilities                    |                           |                                       | ·                            |                     |
| ,                                    |                           |                                       |                              |                     |
|                                      |                           | · · · · · · · · · · · · · · · · · · · |                              | <del></del>         |
|                                      |                           |                                       |                              |                     |
| . HEATING, VENTING and All           | R CONDITION               | ING (Circle all                       | that apply)                  |                     |
|                                      |                           |                                       | 7. 7.                        | •                   |
| ype of heating system(s) used in the | his building: (cit        | rcie ail that app                     | ly – note primar             | y)                  |
| Hot air circulation                  | Upat muses                | 1 <del>1</del> -4                     |                              |                     |
| Space Heaters                        | Heat pump<br>Suvam radiat |                                       | water baseboard<br>ant floor |                     |
| Electric baseboard                   | Wood stove                |                                       | loor wood boiler             | Olber               |
| Electric daysocard                   | 44007 2K1A6               | Oute                                  | toor wood botter             | Оша                 |
| he primary type of fuel used is:     |                           |                                       |                              |                     |
| Natural Gas                          | Fuel Oil                  | <b>V</b> ero                          | osene                        |                     |
| Electric                             | Propane                   | Sola                                  |                              |                     |
| Wood                                 | Coal                      | 2314                                  | •                            |                     |
| Domestic hot water tank fueled by    | . با میں                  |                                       | 9 as ?                       |                     |
| Boiler/furnace located in: Base      | ement Outd                | loots Mair                            | n Floor                      | OtherOnk.           |
| Air conditioning:                    |                           | dow units - One                       |                              | None .              |

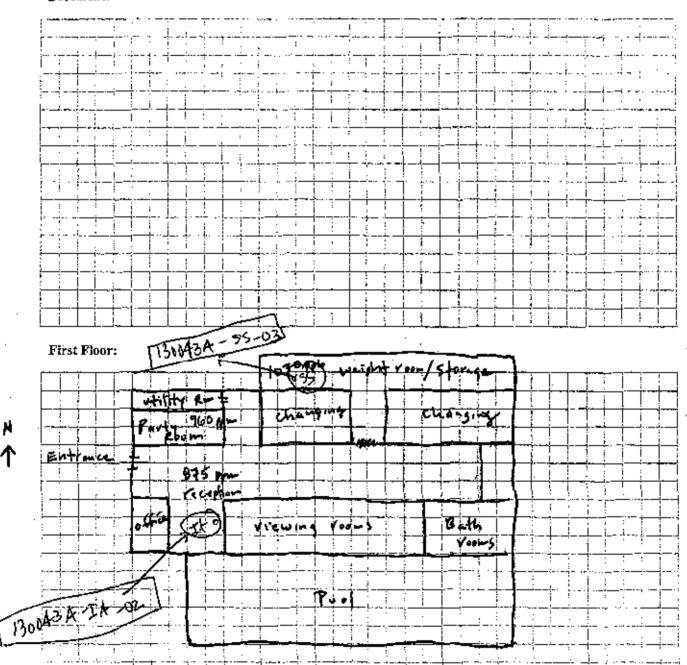
|                       | e supply and cold air return ductwork, and its cond<br>ld air return and the tightness of duct joints. Indic |                         |                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|
|                       |                                                                                                              |                         |                      |
|                       |                                                                                                              | <del></del> .           |                      |
|                       |                                                                                                              |                         |                      |
| ·                     |                                                                                                              |                         |                      |
|                       | · · · · · · · · · · · · · · · · · · ·                                                                        |                         | · · ·                |
|                       |                                                                                                              |                         |                      |
| 7. OCCUP              | PANCY                                                                                                        |                         |                      |
| Is basement           | Howest level occupied? (Full-time) Occasion                                                                  | nally Seldom            | Almost Never         |
| Level                 | General Use of Each Floor (e.g., familyroom,                                                                 | <u>bedroom, laundry</u> | , workshop, storage) |
| Basement              | NA                                                                                                           | · .                     |                      |
| 1st Floor             | Swimming tool + fact                                                                                         | Hiers                   |                      |
| 2 nd Floor |                                                                                                              | (1)(12)                 | <del></del> :        |
| 3 rd Floor | <u> </u>                                                                                                     | <u> </u>                |                      |
|                       |                                                                                                              |                         | <del></del> .        |
| 4 th Floor |                                                                                                              |                         | <del></del>          |
| 8. FACTOR             | RS THAT MAY INFLUENCE INDOOR AIR QUA                                                                         | ALITY                   |                      |
| a. Is there           | e an attached garage?                                                                                        | (D)                     | for chlorine         |
| b. Does th            | ne garage have a separate heating unit?                                                                      | Y/N/6                   | ) 24ex=1==           |
|                       | troleum-powered machines or vehicles<br>in the garage (e.g., lawnmower, atv, car)                            | Y/N/SA<br>Please spec   | )<br>hfy             |
| d. Has the            | e building ever had a fire?                                                                                  | y / <b>∮</b> wi         | nen?                 |
| e. Is a ker           | rosene or unvented gas space heater present?                                                                 | _                       | nere?                |
| f. Is there           | e a workshop or hobby/craft area?                                                                            | _                       | ype?                 |
| g. Is there           | e smoking in the building?                                                                                   | _ <b>_</b>              | ently?               |
| b. Have c             | leaning products been used recently?                                                                         | _                       | ype? daily           |
|                       | ,                                                                                                            | /<br>勿/N! When & Ti     | •                    |

|                                                                                                                                                                                                          |                                                         | ,        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------|
| 5                                                                                                                                                                                                        |                                                         | 2 montes |
| j. Has painting/staining been done in the last 6 months?                                                                                                                                                 | N Where & When? Swin P.                                 | / office |
| k. Is there new carpet, drapes or other textiles?                                                                                                                                                        | Y / 🚱 Where & When?                                     |          |
| I. Have air fresheners been used recently?                                                                                                                                                               | Ø/N When & Type?                                        |          |
| m. Is there a kitchen exhaust fan?                                                                                                                                                                       | ØN If yes, where vented?                                |          |
| n. Is there a bathroom exhaust fan?                                                                                                                                                                      | N If yes, where vented?                                 |          |
| o. Is there a clothes dryer?                                                                                                                                                                             | N If yes, is it vented outside? Y / I                   | N        |
| p. Has there been a pesticide application?                                                                                                                                                               | Y / When & Type?                                        |          |
| Are there odors in the building?  If yes, please describe:                                                                                                                                               | Ø _N                                          |          |
| Oo any of the building occupants use solvents at work?<br>e.g., chemical manufacturing or laboratory, auto mechanic or<br>soiler mechanic, pesticide application, cosmetologist                          | Y/N unknown auto body shop, painting, fuel oil delivery | ,        |
| If yes, what types of solvents are used?                                                                                                                                                                 | Unknown                                                 |          |
| If yes, are their clothes washed at work?                                                                                                                                                                | Y/N                                                     |          |
| Do any of the building occupants regularly use or work at response)  Yes, use dry-cleaning regularly (weekly)  Yes, use dry-cleaning infrequently (monthly or less)  Yes, work at a dry-cleaning service | a dry-cleaning service? (Circle appropriate  No         | æ.       |
| is there a radon mitigation system for the building/structs is the system active or passive?  Active/Passive                                                                                             | re? Y/Date of Installation:                             |          |
| 9. WATER AND SEWAGE                                                                                                                                                                                      |                                                         |          |
| Water Supply: Public Water Drilled Well Driv                                                                                                                                                             | ren Well Dug Well Other:                                | <u>.</u> |
| Sewage Disposal: Public Sewer Septic Tank Lea                                                                                                                                                            | ch Field Dry Well Other:                                | _        |
| 10. RELOCATION INFORMATION (for oil spill resider                                                                                                                                                        | tial emergency)                                         |          |
| a. Provide reasons why relocation is recommended: _                                                                                                                                                      | h/4-                                                    | _        |
| b. Residents choose to: remain in home relocate to                                                                                                                                                       | friends/femily relocate to hotel/motel                  |          |
| c. Responsibility for costs associated with reimbursen                                                                                                                                                   | nent explained? Y/N                                     |          |
| d. Relocation package provided and explained to resi                                                                                                                                                     | ients? Y/N                                              |          |

## H, FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

## Basement:



## 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

|                                              |                 |              |                                                  |          | ·                                                |                                                | ····                                             |            |               |                                                  | <b></b>    |                  |           | a                                                | -,            | · <del>- · · · -</del>                        |                                              |                | ,                |
|----------------------------------------------|-----------------|--------------|--------------------------------------------------|----------|--------------------------------------------------|------------------------------------------------|--------------------------------------------------|------------|---------------|--------------------------------------------------|------------|------------------|-----------|--------------------------------------------------|---------------|-----------------------------------------------|----------------------------------------------|----------------|------------------|
| ·<br>                                        | See             | 0            | 400                                              | et_      | 4 1                                              | we.                                            | <u> </u>                                         | 6          | ner           | <u>- 5</u>                                       | 70         | nel              | <u> 1</u> | med                                              | <u> </u>      | Lou Strage                                    | <u> </u>                                     |                |                  |
| : :                                          |                 | 64           | P                                                | JΜ,      | _h,                                              | 249/                                           | 04                                               |            | <u>.</u>      |                                                  |            | <u> </u>         |           | <u>: :</u>                                       | ·- <u>-</u> - | ;<br>                                         |                                              |                |                  |
| <u>.                                    </u> |                 |              |                                                  |          |                                                  | 711                                            | :                                                |            |               |                                                  |            | :                |           | <u> </u>                                         |               |                                               |                                              |                | :                |
|                                              | 2               |              |                                                  |          |                                                  |                                                |                                                  |            |               |                                                  |            |                  | :         |                                                  |               |                                               |                                              |                |                  |
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| Γ.                                           |                 |              |                                                  | · ·      | <u> </u>                                         |                                                | :                                                |            | ····          |                                                  | —          | :                |           | :                                                |               | :                                             |                                              |                |                  |
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|                                              |                 |              | J                                                |          | : :                                              |                                                | ! ! !                                            | : <u> </u> | :             |                                                  | :_         |                  |           | <del></del>                                      |               | <u>: : : : : : : : : : : : : : : : : : : </u> |                                              | <u>: :</u>     |                  |
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|                                              | i               | : :          |                                                  |          |                                                  |                                                |                                                  |            |               |                                                  |            | · -              |           |                                                  | :             | :                                             | :                                            |                | ;                |
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| ٦ | 13 |    | Di  | D | 6  | 'n | n | T | 1 | דר  | - | T | N  | ſτ | r | Г  | N | [7 | Г | n | ı   | 2 | ι | / | 17 | O | 'n | o | ٦  | Æ |  |
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| Make & Model of field instrument used: |
|----------------------------------------|
|----------------------------------------|

List specific products found in the residence that have the potential to affect indoor air quality.

| Location | Product Description                                | Size<br>(units) | Condition* | Chemical Ingredients | Field<br>Instrument<br>Reading<br>(units) | Photo " Y/N                                      |
|----------|----------------------------------------------------|-----------------|------------|----------------------|-------------------------------------------|--------------------------------------------------|
| warding. | Air-frashauer                                      | į               | υo         | Accetone             |                                           | N                                                |
| 11       | Air Froshener Toilet Froshener Floor Tile Adhosale | <u> </u>        | J0         | dipropylely col      |                                           | N                                                |
|          | Floor Tile Adhosale                                | <b>5</b>        | ·          | • · · ·              |                                           |                                                  |
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|          |                                                    |                 | <u>;</u>   | 494-49-              |                                           |                                                  |
|          |                                                    | †               |            |                      | •                                         | <del>                                     </del> |

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

# NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

| Preparer's Name <u>B</u>       | uda Nen                  | Profession   | Date/Tim         | ie Prepared    | 2/16/10 8:25 |
|--------------------------------|--------------------------|--------------|------------------|----------------|--------------|
| Preparer's Affiliation         |                          |              |                  |                |              |
| Purpose of Investigation       | 1 Vagor IV               | ndrusion     | Inver            | tigation       | —            |
| 1. OCCUPANT:                   | ( NYSUEZ                 | 31 IE        | 1300430          | 9              |              |
| Interviewed: ①/ N              |                          |              |                  |                |              |
| Last Name: New                 | <u>rel/</u> 1            | First Name:  | Rande            | ,              |              |
| Last Name: New<br>Address: 567 | Mary St.                 |              |                  |                | <b>-</b> -   |
| County: Nassa                  |                          |              |                  |                |              |
| Home Phone:                    | Office                   | e Phone:     | 516- 99          | <u> </u>       | <b>3</b> >   |
| Number of Occupants/p          | persons at this location | 3_           | Age of Occup     | ants <u>40</u> | - 20         |
| 2. OWNER OR LAND               | DLORD: (Check if sa      | ame as occu  | rant)            |                |              |
| Interviewed: Y/🕏               |                          |              |                  |                |              |
| Last Name: Dec                 | <u>jenhardt</u> fi       | irst Name: _ | Richar           | rd.            |              |
| Address:                       |                          |              |                  |                | _            |
| County:                        | : <u>/</u>               |              |                  |                |              |
| Home Phone:                    | Offic                    | ce Phone: _  |                  | ···-           |              |
|                                |                          |              |                  |                |              |
| 3. BUILDING CHAR               | ACTERISTICS              |              |                  |                |              |
| Type of Building: (Ci          | rcle appropriate respor  | nse)         |                  |                |              |
| Residential                    | School<br>Church         | Commo        | ercial/Multi-use | Ð              |              |

| If the property is residentia               | al, type? (Circle appropr                         | iate (Sponse)                                          |                       |             |
|---------------------------------------------|---------------------------------------------------|--------------------------------------------------------|-----------------------|-------------|
| Ranch<br>Raised Ranch<br>Cape Cod<br>Duplex | 2-Family Split Level Contemporary Apartment House | 3-Family<br>Colonial<br>Mobile Home<br>Townhouses/Cond | dos                   |             |
| Modular /                                   | Log Home                                          | Other:                                                 |                       |             |
| If multiple units, how man                  | y?                                                |                                                        |                       |             |
| If the property is commerce                 |                                                   |                                                        |                       |             |
| Business Type(s)                            | hoto angravil                                     | <del>9</del>                                           | 1                     |             |
| Does it include residence                   | es (i.e., multi-use)                              | If yes, ho                                             | w many?               |             |
| Other characteristics:                      |                                                   |                                                        |                       |             |
| Number of floors 3                          | - Bui                                             | iding age 444 4                                        |                       |             |
| Is the building insulated                   | ? Y / 🔃 Ho                                        | wair tight? Tight / At                                 | erage (Not Tight)     |             |
| 4. AIRFLOW                                  |                                                   |                                                        | · .                   |             |
| Use air current tubes or tr                 | acer smoke to evaluate                            | airflow patterns and                                   | qualitatively describ | e:          |
| Airflow between floors                      | MIA                                               | •                                                      |                       |             |
|                                             |                                                   |                                                        |                       | · · ·       |
| ·                                           |                                                   |                                                        |                       | <del></del> |
| Airflow near source                         |                                                   |                                                        |                       |             |
|                                             |                                                   |                                                        | <del></del> '         |             |
| ·                                           |                                                   |                                                        | ,                     |             |
|                                             | v.                                                |                                                        |                       |             |
| Outdoor air infiltration                    |                                                   |                                                        |                       |             |
|                                             |                                                   |                                                        | ·                     | ·           |
|                                             |                                                   |                                                        |                       |             |
| Infiltration into air ducts                 |                                                   |                                                        |                       |             |
|                                             |                                                   |                                                        | <u> </u>              |             |
|                                             |                                                   |                                                        |                       |             |

| 5. BASEMENT AND CONS                                                                                                                          | TRUCTION CHARA                                                     | ACTERISTICS          | (Circle all that         | apply)       |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------|--------------------------|--------------|
| a. Above grade construction                                                                                                                   | n: wood frame                                                      | (CPRCTOSE)           | stone                    | brick        |
| b. Basement type:                                                                                                                             | (full)                                                             | crawlspace           | słab                     | other        |
| с. Basement Поог:                                                                                                                             | ennorete                                                           | di <del>n</del>      | stone                    | other        |
| d. Basement floor:                                                                                                                            | uncovered                                                          | covered              | covered with             | 1            |
| e. Concrete floor:                                                                                                                            | unsealed                                                           | sealed               | sealed with              |              |
| f. Foundation walls:                                                                                                                          | poured                                                             | block .              | stone                    | other        |
| g. Foundation walls:                                                                                                                          | unscaled                                                           | scaled               | sealed with              |              |
| h. The basement is:                                                                                                                           | wet                                                                | damp                 | $\widehat{\mathfrak{G}}$ | moldy        |
| i. The basement is:                                                                                                                           | finished                                                           | infinished           | partially fini           | shed         |
| j. Sump present?                                                                                                                              | Y 🕟                                                                |                      |                          |              |
| k. Water in sump?                                                                                                                             | Y/N/not applicable                                                 | >                    |                          |              |
| Basement/Lowest level depth t                                                                                                                 | relow grade: $\lambda$ -7                                          | (feet)               |                          |              |
| creaks utilities                                                                                                                              | floor Jean in l                                                    | nusat                |                          |              |
| 6. HEATING, VENTING an  Type of heating system(s) used  Hot air circulation  Space Heaters  Electric baseboard  The primary type of fuel used | I in this building: (cir<br>Heat pump<br>Sweam radia<br>Wood stove | releall that apprint | aly – note prim          | s in officer |
| •                                                                                                                                             |                                                                    | <b>.</b>             |                          |              |
| Natural Ges<br>Electric<br>Wood                                                                                                               | Propane<br>Coal                                                    | Kero<br>Sola         | ûsene<br>Ar              |              |
| Domestic hot water tank fuele                                                                                                                 | ed by:                                                             |                      | _                        |              |
| Boiler/furnace located in:                                                                                                                    | essement Out                                                       | ioors Mai            | n Fioor                  | Other        |
| Air conditioning:                                                                                                                             | Central Air Win                                                    | dow units Ope        | n Windows                | None         |

|                       | 4                                                                                                |                         |                           |
|-----------------------|--------------------------------------------------------------------------------------------------|-------------------------|---------------------------|
| Are there air d       | istribution ducts present? 💮 N                                                                   |                         |                           |
|                       | pply and cold air return ductwork, and its co<br>ir return and the tightness of duct joints. Inc |                         |                           |
|                       |                                                                                                  |                         |                           |
|                       |                                                                                                  |                         |                           |
|                       |                                                                                                  |                         |                           |
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|                       |                                                                                                  |                         |                           |
|                       |                                                                                                  |                         |                           |
| 7. OCCUPAN            | ICY                                                                                              |                         |                           |
| Is basement/lov       | west level occupied? Full-time Occasi                                                            | onally Seldom           | Almost Never              |
| <u>Level</u>          | General Use of Each Floor (e.g., familyroon                                                      | o, bedroom, laundry, 1  | vorkshop, storage)        |
|                       |                                                                                                  |                         | ·                         |
| Basement              | <u>hone</u>                                                                                      | ·                       | <del></del>               |
| 1st Floor             | offices nawtacturing                                                                             | (devolupnest)           | <del>_</del>              |
| 2 nd Floor | residence                                                                                        |                         |                           |
| 3 rd Floor |                                                                                                  |                         |                           |
|                       |                                                                                                  | -                       | <b>¬</b>                  |
| 4 th Floor |                                                                                                  |                         | <del>_</del>              |
| 8. PACTORS            | THAT MAY INFLUENCE INDOOR AIR Q                                                                  | UALITY                  |                           |
| a. Is there at        | ı attached garage?                                                                               | Y 🐼                     |                           |
| b. Does the g         | arage have a scparate heating unit?                                                              | Y/n/@                   | •                         |
|                       | eum-powered machines or vehicles<br>he garage (e.g., lawnmower, atv, car)                        | Y/N/NA<br>Please specif |                           |
| d. Has the b          | uilding ever had a fire?                                                                         | ⟨Y⟩N Whe                | n? nuk. linese than a dec |
| e. Is a kerose        | ene or unvented gas space heater present?                                                        | Y 🔊 Whe                 | те?                       |
| f Is there a          | workshop or hobby/craft area?                                                                    | N Where & Tv            | ne?                       |

g. Is there smoking in the building?

h. Have cleaning products been used recently?

i. Have cosmetic products been used recently?

Y / 🗗 How frequently? _____

Y/👩 When & Type?

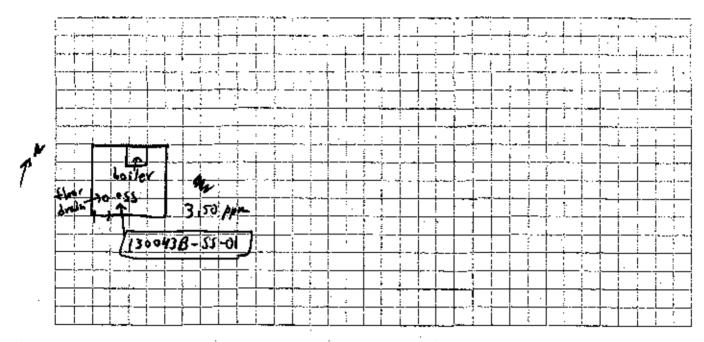
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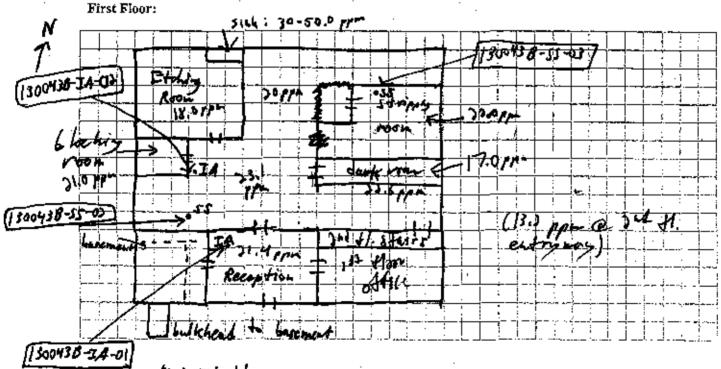
| j. Has painting/staining been done in the last 6 months?                                                                                                                     | Y/W Where & When?                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| k. Is there new carpet, drapes or other textiles?                                                                                                                            | Y 🕟 Where & When?                                  |
| t. Have air fresheners been used recently?                                                                                                                                   | Y 🚫 When & Type?                                   |
| m. Is there a kitchen exhaust fan?                                                                                                                                           | Y D If yes, where vented?                          |
| n. Is there a bathroom exhaust fan?                                                                                                                                          | N If yes, where vented?                            |
| o. Is there a clothes dryer?                                                                                                                                                 | Y / 1 If yes, is it vented outside? Y / N          |
| p. Has there been a pesticide application?                                                                                                                                   | Y N When & Type?                                   |
| Are there odors in the building?  If yes, please describe: plate descriping                                                                                                  | Ø N. gent                                          |
| Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or a boiler mechanic, pesticide application, cosmetologist | y / 💭 auto body shop, painting, fuel oil delivery. |
| If yes, what types of solvents are used?                                                                                                                                     | N/4                                                |
| If yes, are their clothes washed at work?                                                                                                                                    | Y/N N/A                                            |
| Do any of the building occupants regularly use or work at a response)                                                                                                        | dry-cleaning service? (Circle appropriate          |
| Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service                                            | No<br>Unknown                                      |
| Is there a radon mitigation system for the building/structur. Is the system active or passive?  Active/Passive                                                               | e? Y Date of Installation:                         |
| 9. WATER AND SEWAGE                                                                                                                                                          |                                                    |
| Water Supply: Public Water Drilled Well Drive                                                                                                                                | n Well Dug Weli Other:                             |
| Sewage Disposal: Public Sewe Septic Tank Leach                                                                                                                               | Field Dry Well Other:                              |
| 10. RELOCATION INFORMATION (for oil spill residenti                                                                                                                          | al emergency)                                      |
| a. Provide reasons why relocation is recommended;                                                                                                                            | N/A-                                               |
| b. Residents choose to: remain in home relocate to fr                                                                                                                        | iends/family relocate to hotel/motel               |
| c. Responsibility for costs associated with reimburseme                                                                                                                      | nt explained? Y/N                                  |
| d. Relocation package provided and explained to reside                                                                                                                       | ents? Y/N                                          |

## 11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

## Basement:





20 - Shezab IA: Indoor Jr

#### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

|          |                                                |           |          |               | - :: - :  | ,•                                           |                                                |             |
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| Sca      | previous                                       | بديدا يعط | ر ر      | PJM           | ( staded  |                                              |                                                |             |
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| 13. PRODUCT INVENTORY F | ORN | 1 |
|-------------------------|-----|---|
|-------------------------|-----|---|

| Make & Model of field instrument used: | PAL | RAE |  |
|----------------------------------------|-----|-----|--|
|                                        |     |     |  |

List specific products found in the residence that have the potential to affect indoor air quality.

| Location | Product Description | Size<br>(units) | Condition [*] | Chemical Ingredients                  | Field<br>Instrument<br>Reading<br>(units) | Photo " Y/N                                      |
|----------|---------------------|-----------------|------------------------|---------------------------------------|-------------------------------------------|--------------------------------------------------|
| Ething   | My Etch Allitize    | 5961            | . 0/40                 |                                       | 33.0                                      | Ðſ                                               |
| , l ¥ s  | Notric Acid         | 5594            | υ.                     | Nitra Acid                            | 24.1                                      | β¥                                               |
| offin's  | Suda Ash            | 5016.           | 00                     | Mile al                               | 4445.p                                    | 83                                               |
| v.,      | Magnesius Padger    | 5501            | U                      | wylen gethyl beczer czb-              | 4,26                                      | 84                                               |
| Eldy     | Rouderel Gan Ambie  | 5013            | U                      | gun ambic                             | 30,0                                      | B5                                               |
| or dels  | Gasile              | 194             | ν                      | gosilae                               | 33'9                                      | -                                                |
| Dark     | Developer           | 594             | 4/0                    | see plub                              | 17.3                                      | BC                                               |
| un       | Fiper               | 594             | V/40                   | sec phoh                              | 17.7                                      | 87                                               |
| <u> </u> | · ·                 |                 |                        |                                       |                                           |                                                  |
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^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

Pr\Sections\STS\Orl Spills\Guidence Does\CSR-3.doc

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.



MACTEC Engineering and Consulting, Inc. 107 Auducon Road, Bldg. 2, Suite 301 Wokefield, MA 01880

| JOB NO.  | Heir         | SHEET  |    | _SF . |  |
|----------|--------------|--------|----|-------|--|
| PHASE _  | 3612092127   | TASK _ | 02 | 91    |  |
| JOB NAME | = 567 Main S | Ж·     |    |       |  |
| BY       | P5M          | _DATE  |    |       |  |
| CHECKED  | BY           | DATE   |    |       |  |

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# NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

| Preparer's Name Wunden Show Date/Time Prepared 09-01-70 6/015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Preparer's Affiliation MALTEL trutheenho Phone No. (207) 807-7353                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Interviewed: Y/V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Last Name: First Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Home Phone: Office Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Number of Occupants/persons at this location Age of Occupants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. OWNER OR LANDLORD: (Check if same as occupant)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Interviewed: V/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Last Name: TONY First Name: Martinelli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Last Name: TONY First Name: Martinelli  Address: 125 state st. westbury, New Yark.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| County: Nassau                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| County: 100 500 Home Phone: (516) 546 - 5 700 .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3. BUILDING CHARACTERISTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Type of Building: (Circle appropriate response)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Residential School Commercial/Multi-use Industrial Church Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

1. chocked by: Rin 4/13/11

| If the property is residential, type? (Circle appropriate response)                                                                                          | NULA - Site 0  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Ranch 2-Family 3-Family Raised Ranch Split Level Coloniai Cape Cod Contemporary Mobile Home Duplex Apartment House Townhouses/Condos Modular Log Home Other: |                |
| If multiple units, how many?                                                                                                                                 | •              |
| If the property is commercial, type?                                                                                                                         |                |
| Business Type(s) Me (Mamical Bunker).                                                                                                                        |                |
| Does it include residences (i.e., multi-use)? YN If yes, how many?                                                                                           | 1 <del>X</del> |
| Other characteristics:                                                                                                                                       |                |
| Number of floors 2 Building age Uhknown.                                                                                                                     |                |
| Is the building insulated? Y N How air tight? Tight / Average / Not                                                                                          | Tight          |
| 4. AIRFLOW                                                                                                                                                   |                |
| Use air current tubes or tracer smoke to evaluate airflow patterns and qualitative                                                                           | ly describe:   |
| Airflow between floors                                                                                                                                       |                |
|                                                                                                                                                              |                |
|                                                                                                                                                              |                |
| Airflow near source                                                                                                                                          |                |
|                                                                                                                                                              |                |
|                                                                                                                                                              |                |
| Outdoor air infiltration                                                                                                                                     |                |
|                                                                                                                                                              |                |
| Infiltration into air ducts                                                                                                                                  |                |
|                                                                                                                                                              |                |

|                                                                                                                |                             | 3                                     |                    | ے ماک میں               |
|----------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------|--------------------|-------------------------|
| 5. BASEMENT AND CONS                                                                                           | TRUCTION CHARA              | CTERISTICS                            | (Circle all that a | pply) NUA-SHC           |
| a. Above grade construction                                                                                    | n: wood frame               | cencrese                              | stone              | brick .                 |
| b. Basement type:                                                                                              | full                        | crawlspace                            | slab               | other hehe              |
| c. Basement floor:                                                                                             | concrete                    | din                                   | stone              | other hone              |
| d. Basement floor:                                                                                             | uncovered                   | covered                               | covered with       | none                    |
| e. Concrete floor:                                                                                             | unsealed                    | sealed                                | sealed with _      |                         |
| f. Foundation walls:                                                                                           | poured                      | GOOD .                                | stone              | ਾ<br>ਰਾਮਿਕਾ             |
| g. Foundation walls:                                                                                           | unsealed                    | sealed                                | sealed with _      | paint                   |
| h. The basement is:                                                                                            | wet                         | damp                                  | dry                | moldy ( )               |
| i. The basement is:                                                                                            | finished                    | unfinished                            | partially finis    | hed (rice)              |
| j. Sump present?                                                                                               | Y / 🖸                       |                                       |                    |                         |
| k. Water in sump?                                                                                              | Y/N/not applicable          |                                       |                    |                         |
| Basement/Lowest level depth i                                                                                  | elow grade:                 | (feet)                                |                    |                         |
| Identify potential soil vapor en                                                                               | ,                           | ximate size (e.g                      |                    | ports, drains)<br>>~5 十 |
| • • • • • • • • • • • • • • • • • • • •                                                                        | 7                           |                                       | j '9-              | ,                       |
| 6. HEATING, VENTING an  Type of heating system(s) used  Hot air curediation  Space Heaters  Electric baseboard |                             | cle all that app<br>Hot v<br>on Radia | ,                  |                         |
| The primary type of fuel used                                                                                  | is:                         |                                       |                    |                         |
| Namural Gas<br>Electric<br>Wood                                                                                | Fuel Oil<br>Propane<br>Coal | Kero<br>Solar                         |                    |                         |
| Domestic hot water tank fuele                                                                                  | d by: Gm                    | •                                     |                    |                         |
| Boiler/furnace located in:                                                                                     | Basement Outde              | oers Mais                             | Floor              | Other                   |
| Air conditioning:                                                                                              | Ceptial Arr Wind            | oy dnits Oper                         | n Windows          | None                    |

| Are | there | air | distribution | ducts | present? |
|-----|-------|-----|--------------|-------|----------|
|     |       |     |              |       |          |



Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

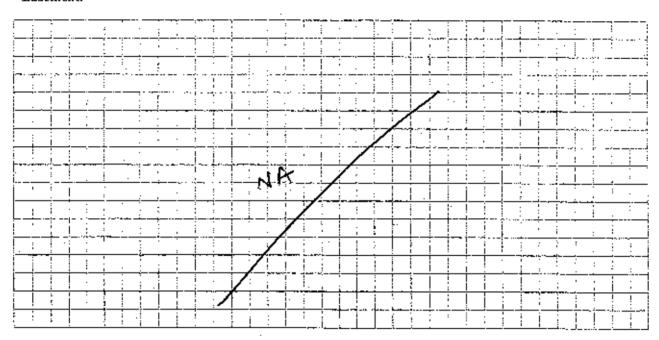
|                                                                                                                        | <del></del> .                           |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| · · · · · · · · · · · · · · · · · · ·                                                                                  |                                         |
|                                                                                                                        |                                         |
|                                                                                                                        |                                         |
| 7. OCCUPANCY                                                                                                           |                                         |
| Is basement/lowest level occupied? Full-time Occas                                                                     | sionally Seldom Almost Never            |
| Level General Use of Each Floor (e.g., familyroon                                                                      | m. bedroom, laundry, workshop, storage) |
| Basement                                                                                                               | ·                                       |
| 1" Floor of tize, strage - ware                                                                                        | hose                                    |
| 2 rd Floor                                                                                                  | ··                                      |
| 3 rd Floor                                                                                                  | <u>.</u>                                |
| 4 th Floor                                                                                                  | ·                                       |
| 8. FACTORS THAT MAY INFLUENCE INDOOR AIR Q                                                                             | HALITY                                  |
|                                                                                                                        | v (h)                                   |
| a. Is there an attached garage?                                                                                        |                                         |
| b. Does the garage have a separate heating unit?                                                                       | Y/N/NA)                                 |
| <ul> <li>c. Are petroleum-powered machines or vehicles<br/>stored in the garage (e.g., lawnmower, atv, car)</li> </ul> | Y / <b>N/</b> / NA<br>Please specify    |
| d. Has the building ever had a fire?                                                                                   | Y N When?                               |
| e. Is a kerosene or unvented gas space heater present?                                                                 | Y (N) Where?                            |
| f. Is there a workshop or hobby/craft area?                                                                            | Y (N) Where & Type?                     |
| g. Is there smoking in the building?                                                                                   | Y (N) How frequently?                   |
| h. Have cleaning products been used recently?                                                                          | Y 🗬 When & Type?                        |
| i. Have cosmetic products been used recently?                                                                          | Y N When & Type?                        |

| j. Has painting/stai                                                      | ning been done i                                                 | n the last 6 mo                 | nths? (Y) N        | Where & When?       | <u>vallingea</u>   | led flour                       |
|---------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------|--------------------|---------------------|--------------------|---------------------------------|
| k. Is there new car                                                       | pet, drapes or oth                                               | ner textiles?                   | . Y 🔞              | Where & When?       | ·                  | יין אי איי בי<br>יייביו ביבית − |
| l. Have air freshen                                                       | ers been used rec                                                | ently?                          | Y/(1)              | When & Type?        | . ·                | - h71 ppc                       |
| m. Is there a kitche                                                      | en exhaust fan?                                                  |                                 | Y / 🕟              | If yes, where ver   | nted?              | _                               |
| n. Is there a bathr                                                       | oom exhaust fan'                                                 | ?                               | y /ᡚ               | If yes, where ver   | nted?              | _                               |
| o. Is there a clothes                                                     | dryer?                                                           |                                 | y/🔕                | If yes, is it vente | d outside? Y / N   |                                 |
| p. Has there been a                                                       | pesticide applic                                                 | ation?                          | Y (b)              | When & Type?_       |                    | _                               |
| Are there odors in<br>If yes, please descr                                |                                                                  |                                 | y (Ŋ               | ·. · · · ·          | · <del></del>      |                                 |
| Do any of the buildin<br>(e.g., chemical manufa<br>boiler mechanic, pesti | cauring or laborat                                               | ory, auto mech                  |                    | shop, painting, I   | iuel oil delivery, |                                 |
| If yes, what types of                                                     | f solvents are used                                              | t?                              | Na                 |                     | <del></del>        |                                 |
| If yes, are their clot                                                    | hes washed at wor                                                | 'k?                             | Y (N               |                     |                    |                                 |
| Do any of the building response)                                          | g occupants regi                                                 | ilarly use or w                 | ork at a dry-clea  | ining service? (C   | ircle appropriate  | . •                             |
| Yes, use dry-c                                                            | cleaning regularly<br>cleaning infrequent<br>a dry-cleaning serv | tly (monthly or                 | e less)            | No.<br>Unknown      |                    |                                 |
| Is there a radon mits<br>Is the system active of                          | gation system for<br>or passive?                                 | the building/s<br>Active/Passiv | structure? Y/(N    | Date of Installat   | ion:               | <b>-</b> .                      |
| 9. WATER AND SE                                                           | WAGE                                                             |                                 | •                  |                     |                    |                                 |
| Water Supply:                                                             | Public Water                                                     | Drilled Well                    | Driven Well        | Dug Well            | Other:             |                                 |
| Sewage Disposal:                                                          | Public Sewer                                                     | Septic Tank                     | Leach Field        | Dry Well            | Other:             |                                 |
| 10. RELOCATION                                                            | (NFORMATION                                                      | (for oil spill r                | esidential emerg   | (ency)              |                    |                                 |
| a. Provide reason                                                         | is why relocation                                                | is recommen                     | ded:               |                     | ·<br>              |                                 |
| b. Residents cho-                                                         | ose to: remain in l                                              | nome/ reloc                     | ate to friends/fan | nily relocate       | e to hotel/motel   |                                 |
| c. Responsibility                                                         | for costs associa                                                | ted with reiml                  | oursement explai   | ined? Y/N           |                    |                                 |
| d. Relocation pa                                                          | ckage provided a                                                 | yd explained t                  | to residents?      | Y/N                 |                    |                                 |

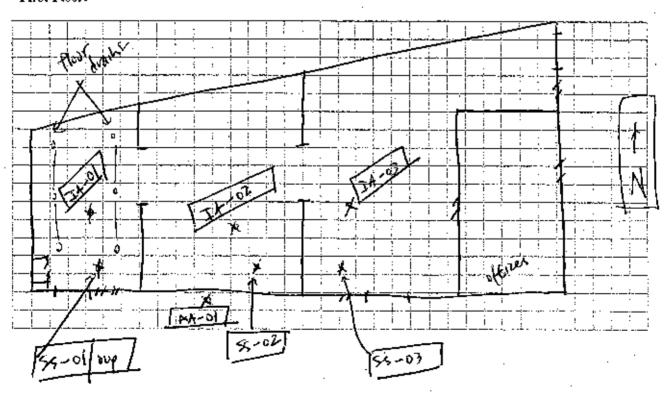
## 11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

#### Basement:



#### First Floor:

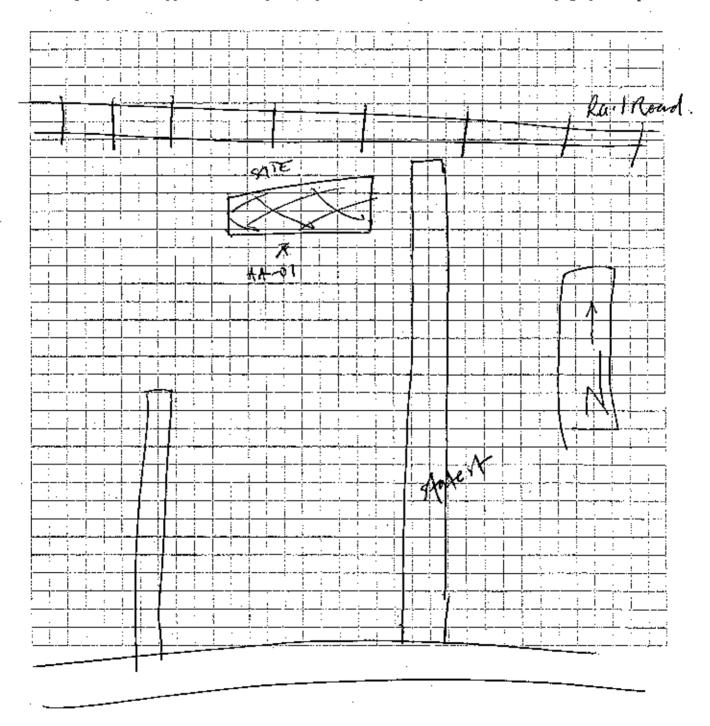


# NMA. Site C

#### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



NOIA -CITEC

Make & Model of field instrument used: pro MM Kal - DING

List specific products found in the residence that have the potential to affect indoor air quality.

| Location | Product Description    | Size<br>(units) | Condition*         | Chemical Ingredients                  | Field Instrument Reading (units) pgb | Photo " X/N |
|----------|------------------------|-----------------|--------------------|---------------------------------------|--------------------------------------|-------------|
| Nichtly  | Creativity<br>Grobales | 1602            | New                | Notised                               | 37'3                                 | N           |
| - 1.<br> | Austream Pacul Spin    | 3cms            | 2 NEW              | Contract                              | 276                                  | Î           |
|          | Conete putch           | i Quit          | 1100               | <del></del>                           | 975                                  | <u> </u>    |
|          | Compress Da            | , 647           | 6001               |                                       | 13140                                | <u> </u>    |
|          | Compossed backylen     |                 | Good               | · <del></del>                         | <u>.</u>                             | .           |
|          | Glass Dower            | ياني والم       | <b>V</b> /         | · · · · · · · · · · · · · · · · · · · |                                      |             |
|          | No solver.             |                 | Viel               | Contract vil                          | 40 ppm                               | <u> </u>    |
|          | Advista vil            | (5)             | Unopent<br>I vsert | Contains in view to vil               | 1                                    |             |
|          | Cly wetl withins       | 2/gst           |                    | !<br>!                                | 390/106                              |             |
|          | Division Spry          | 2 ward          | mis 1602           | PLE, West Chlomes                     | 275                                  | <u> </u>    |
|          | Genes and last and     | <del> </del>    | new                |                                       | 346                                  |             |
|          | helisperent in takes   | 43 6            | in in group        | Freon apat (R-22                      |                                      |             |
|          | ,                      |                 |                    | Crevetum 134a                         |                                      |             |
|          | . 7                    |                 |                    | Depart Sure A-4041/(1+P)              |                                      | 1           |
|          |                        | <br>            | <u></u>            | 1732 Tenrastionethane                 |                                      |             |
|          |                        | :<br><u> </u>   |                    |                                       |                                      |             |
|          | \ \                    |                 |                    |                                       | ·<br>                                |             |
|          | 1                      | <u> </u>        |                    |                                       |                                      | <u> </u>    |
|          |                        |                 |                    | <u> </u>                              |                                      |             |

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

# NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

| Preparer's Name <b>Brace</b> | a Neuman               | Date/Time              | Prepared     | KID 13:15                              |
|------------------------------|------------------------|------------------------|--------------|----------------------------------------|
| Preparer's Affiliation       | MACTEC.                | Phone No.              | 307 <u>-</u> | <u>775 -5401</u>                       |
| Purpose of Investigation     | Vapa Isins             | ion Investiga          | autrou.      | ************************************** |
| 1. OCCUPANT:                 | (NYSDER JI             | 1E ≠=  104321          | 7            |                                        |
| Interviewed: 🕢 N             |                        |                        |              |                                        |
| Last Name: Ruber             | isteia First Na        | ame: <b></b>           |              |                                        |
| Address: 68 Ki               | nkel St.               |                        |              |                                        |
| County: Vassau               | <u>-</u>               |                        |              |                                        |
| Home Phone:                  | Office Phon            | ie: <u>576 - 333 ·</u> | -2/30        |                                        |
| Number of Occupants/pers     | ons at this location 🎺 | Age of Occupa          | nts          |                                        |
| 2. OWNER OR LANDLO           |                        |                        |              |                                        |
| Interviewed N                | RD: (Check if same as  | occupant 🛂 )           |              |                                        |
| _                            |                        |                        | •            | •                                      |
| Last Name:                   |                        |                        |              | _                                      |
| Address:                     |                        |                        |              |                                        |
| County:                      |                        |                        |              |                                        |
| Home Phone:                  | Office Phot            | ne:                    |              |                                        |
| ••                           |                        |                        |              |                                        |
| 3. BUILDING CHARAC           | TERISTICS              |                        |              |                                        |
| Type of Building: (Circle    | appropriate response)  |                        | -            |                                        |
| Residential                  | School <b>©</b>        | ommerciai Multi-use    | >            |                                        |
| [nduştrial]                  | Church Of              | :her:                  |              |                                        |

| If the property is residenti    | al, type? (Circle appropri | ate ;esponse)                                 |  |
|---------------------------------|----------------------------|-----------------------------------------------|--|
| Ranch                           | 2.5::-                     | 3 Family                                      |  |
| Raised Ranch                    | 2-Family                   | 3-Family                                      |  |
|                                 | Split Level                | Coloniai                                      |  |
| Cape Cod                        | Contemporary               | Mobile Home                                   |  |
| Duplex                          | •                          | Townhouses/Condos                             |  |
| Modular                         | Log Home                   | Other:                                        |  |
| If multiple units, how mar      | uy?                        |                                               |  |
| If the property is commer       | cial, type?                | •                                             |  |
| Business Type(s)                | crap netal salvay          | <u>*</u>                                      |  |
| Does it include residen         | ces (i.e., multi-use)? Y/( | If yes, how many?                             |  |
| Other characteristics:          | cont and                   | •                                             |  |
| Number of floors                | 2 (stay office) Build      | ding age 1405                                 |  |
| ls the building insulated       | 1? Y 165 How               | air tight? Tight / Not Tight                  |  |
| 4. AIRFLOW                      |                            |                                               |  |
| Use air current tubes or to     | aner emoke to eveluate e   | airflow patterns and qualitatively describe:  |  |
|                                 | and belone to rinkento t   | in no. pacerna and quantitatives weether.     |  |
| Airflow between floors          | V/K                        | •                                             |  |
|                                 |                            |                                               |  |
|                                 |                            |                                               |  |
|                                 |                            |                                               |  |
| Airflow near source             |                            | · · · · · · · · · · · · · · · · · · ·         |  |
| Antion field Source             |                            |                                               |  |
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|                                 |                            | •                                             |  |
| Outdoor air infiltration        |                            |                                               |  |
|                                 |                            |                                               |  |
|                                 | ·                          | · A B. W                                      |  |
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| Ta Elizabeta de Sancia de Junio |                            |                                               |  |
| Infiltration into air ducts     |                            |                                               |  |
|                                 |                            |                                               |  |
|                                 |                            |                                               |  |
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|                                                            |                                         | 3                 |                                                 |                   |
|------------------------------------------------------------|-----------------------------------------|-------------------|-------------------------------------------------|-------------------|
| 5. BASEMENT AND CONSTRU                                    | CHON CHAR                               | ACTERISTICS       | (Circle all that                                | apply)            |
| a. Above grade construction:                               | wood frame                              | оростете          | stone                                           | brick             |
| b. Basement type:                                          | ful:                                    | crawispace        | slab                                            | other             |
| c. Basement floor:                                         | concrete                                | din               | stone                                           | other             |
| d. Basement floor: V/A-                                    | uncovered                               | covered           | covered with                                    | h                 |
| e. Concrete floor:                                         | insealed                                | scaled            | sealed with                                     |                   |
| f. Foundation walls:                                       | poured                                  | block             | stone                                           | other             |
| g. Foundation walls:                                       | unsealen                                | sealed            | scaled with                                     |                   |
| h. The basement is: 1/A                                    | wet                                     | damp              | dry                                             | moldy             |
| i. The basement is:                                        | finished                                | unfinished        | partially fin                                   | ished .           |
| j. Sump present? . MA                                      | Y/N                                     |                   |                                                 |                   |
| k. Water in sump? Y/1                                      | N /not applicable                       | >                 |                                                 |                   |
| Basement/Lowest level depth below                          | v grade:                                | _(feet)           |                                                 |                   |
| Identify potential soil vapor entry                        | points and appro                        | oximate size (e.; | g., cracks, utili                               | ty ports, drains) |
|                                                            | •                                       | •                 |                                                 |                   |
| cracks (small)                                             | •                                       |                   |                                                 |                   |
|                                                            |                                         |                   |                                                 |                   |
|                                                            |                                         | :                 |                                                 | _                 |
| 6. HEATING, VENTING and Al                                 | IR CONDITION                            | ING (Circle all   | that apply)                                     |                   |
| Type of heating system(s) used in t                        | this building: (ci                      | rcle all that app | aly – note prim                                 | агу)              |
| Hot air circulation<br>Space Heaters<br>Electric baseboard | Heat pump<br>Stream radja<br>Wood stove | tion Radi         | water baseboar<br>iant floor<br>loor wood boile |                   |
| The primary type of fuel used is:                          |                                         |                   |                                                 |                   |
| (Natural Gas                                               | Fuel Oil                                | Ken               | osene                                           |                   |



Fuel Oil Propage Coal

Kerosene Solar

Domestic hot water tank fueled by:

Boiler/furnace located in:

Basement Outo

Outdoors <

Main Floor

Other_

Air conditioning:

Central Air



Open Windows





Describe the supply and cold air return ductwork, and its condition where visible, including whether

| there is a co<br>diagram. | ld air return and the tightness of duct joints. | Indicate the locations on the floor plan     |
|---------------------------|-------------------------------------------------|----------------------------------------------|
|                           |                                                 |                                              |
|                           |                                                 |                                              |
|                           |                                                 | · <del>- · · · · ·</del>                     |
|                           | · · · · · · · · · · · · · · · · · · ·           |                                              |
|                           |                                                 |                                              |
| -                         |                                                 |                                              |
| 7. OCCUP                  | ANCV                                            | * .                                          |
|                           |                                                 | casionally Seldom Almost Never               |
| Level                     | General Use of Euch Floor (e.v., femilyro       | oom, bedroom, laundry, workshop, storage)    |
|                           | Constant Control Lawrence                       | John, Bear Com, Industry, Workshop, Storage) |
| Basement                  |                                                 | · .                                          |
| l* Floor                  | storage (surg metal)                            |                                              |
| 2 nd Floor     | stonge (ofte -snall)                            | <u> </u>                                     |
| 3rd Floor                 |                                                 |                                              |
| 4 th Floor     |                                                 | - · · · · · · · · · · · · · · · · · · ·      |
| 8. FACTOR                 | RS THAT MAY INFLUENCE INDOOR AIR                | QUALITY                                      |
| a. Is there               | an attached garage?                             | y / <b>©</b> ?                               |
| b. Does th                | e garage bave a separate heating unit?          | Y/N/                                         |
|                           | roleum-powered machines or vehicles             | Y/N/M                                        |
|                           | in the garage (e.g., lawnmower, atv, car)       | Please specify                               |
| d. Has the                | e building ever had a fire?                     | Y/ 🚱 When?                                   |
| e. Is a ker               | osene or unvented gas space heater present?     | Y 💋 Where?                                   |
| f. Is there               | a workshop or hobby/craft area?                 | Y / Where & Type?                            |
| g. Is there               | smoking in the building?                        | N How frequently?                            |
| h. Have c                 | leaning products been used recently?            | Y / When & Type?                             |
| i. Have co                | smetic products been used recently?             | V A When & Type?                             |

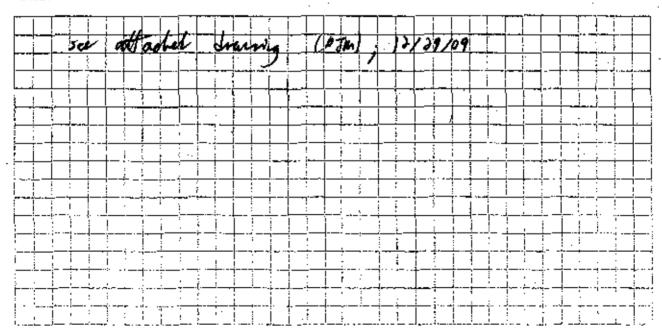
| j. Has painting/staining been done in the last 6 months?                                                                                                                     | Y /♥ Where & When?,                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| k. Is there new carpet, drapes or other textiles?                                                                                                                            | Y / Where & When?                                    |
| 1. Have air fresheners been used recently?                                                                                                                                   | Y 🐧 When & Type?                                     |
| m. Is there a kitchen exhaust fan?                                                                                                                                           | Y / S If yes, where vented?                          |
| n. Is there 2 bathroom exhaust fan?                                                                                                                                          | Y / N If yes, where vented?                          |
| o. Is there a clothes dryer?                                                                                                                                                 | Y 🕟 If yes, is it vented outside? Y / N              |
| p. Has there been a pesticide application?                                                                                                                                   | Y / When & Type?                                     |
| Are there odors in the building?  If yes, please describe:                                                                                                                   | Y / 🕟                                                |
| Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or a boiler mechanic, posticide application, cosmetologist | Y / 🖟<br>auto body shop, painting fuel oil delivery, |
| If yes, what types of solvents are used?                                                                                                                                     | · · · · · · · · · · · · · · · · · · ·                |
| If yes, are their clothes washed at work?                                                                                                                                    | Y/N                                                  |
| Do any of the building occupants regularly use or work at a response)                                                                                                        | ı dry-cleaning service? (Circle appropriate          |
| Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service                                            | Unknown                                              |
| Is there a radon mitigation system for the building/structur<br>Is the system active or passive? Active/Passive                                                              | e? Y Date of Installation:                           |
| 9. WATER AND SEWAGE                                                                                                                                                          | •                                                    |
| Water Supply: Public Water Drilled Well Drive                                                                                                                                | en Well Dug Well Other:                              |
| Sewage Disposal: Public Sewer Septic Tank Leach                                                                                                                              | h Field Dry Well Other:                              |
| 10. RELOCATION INFORMATION (for oil spill resident                                                                                                                           | ial emergency)                                       |
| a. Provide reasons why relocation is recommended:                                                                                                                            | V/A                                                  |
| b. Residents choose to: remain in home relocate to fr                                                                                                                        | riends/family relocate to hotel/motei                |
| c. Responsibility for costs associated with reimburseme                                                                                                                      | ent explained? Y/N                                   |
| d. Relocation package provided and explained to reside                                                                                                                       | ents? Y/N                                            |

## 11, FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: howe

## First Floor:



#### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

| ·                                                | 100                                              | atta 1-1                              | hearing           | tom.          | 12/29/09    |                                                  | -;            |
|--------------------------------------------------|--------------------------------------------------|---------------------------------------|-------------------|---------------|-------------|--------------------------------------------------|---------------|
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# F

# 13. PRODUCT INVENTORY FORM

| Make & Model of field instrument used: _ | pps RAE |  |
|------------------------------------------|---------|--|
|------------------------------------------|---------|--|

List specific products found in the residence that have the potential to affect indoor air quality.

| Location | Product Description  | Size<br>(units) | Condition* | Chemic        | eal Ingredients   | Field<br>Instrument<br>Reading<br>(units) | Photo Y/N                                        |
|----------|----------------------|-----------------|------------|---------------|-------------------|-------------------------------------------|--------------------------------------------------|
| wardouse | Part                 | 55gd            | U          | Potroleum     | Distillates       | 248                                       | Y                                                |
| ж.,      | l; đ                 | Spill           | M/A        | <br>          |                   | 257                                       | [ F                                              |
| ) p #1   | batteries (spad)     | 14              | D          | ļ             |                   | 742                                       | 7                                                |
| they us  | gestin (jung)        | -               | _          | 1             |                   | 371                                       | r_                                               |
| est nece | isanily relevant her | a hidal         | to be      | hansen'ed 1   | when into look to | 4)                                        |                                                  |
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^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.



MACTEC Engineering and Consulting, Inc. 107 Audubon Road, Bldg. 2, Suite 301 Wakefield, MA 31880

| JOB NO N   | JA- SHEET 1 OF 1    |
|------------|---------------------|
| PHASE 36   | 12092127 TASK 04.01 |
| JOB NAME 6 | B Kinkel St         |
| BY TIM     | DATE 12 - 29 + 09   |
| CHECKED BY | DATE                |

|              |        |                    |                                         | CHECKE                 | D 9Y         | DATE                                   | <del></del>                           |
|--------------|--------|--------------------|-----------------------------------------|------------------------|--------------|----------------------------------------|---------------------------------------|
|              |        |                    |                                         |                        | !<br>!       |                                        |                                       |
| 4            | ;<br>  | ·                  |                                         |                        | :            |                                        |                                       |
|              |        |                    | ) · · · · · · · · · · · · · · · · · · · | il Story Idea          | rs           | ······································ | · · · · · · · · · · · · · · · · · · · |
| - · ·        |        |                    | Vacant                                  | The state of           |              |                                        |                                       |
|              |        |                    | 415 office                              | \$ <b>512</b> 500      |              |                                        |                                       |
|              |        | 300 <b>43</b> F-7, |                                         |                        | 55           | 1xA 0]                                 | [30043F-55-0]<br>[30043F-IA-0]        |
| . <u>.</u> . |        |                    | Olf open                                | How space (130         | 1043F-55-C   | 23                                     | (357,00)                              |
|              |        |                    | י אי                                    | floor space            |              |                                        | 30043F=55-03/                         |
|              | \$4.   | ·                  |                                         | * Series               | r mulal      |                                        |                                       |
|              | Kinkel |                    |                                         |                        |              |                                        | :<br>:<br>:<br>:                      |
|              |        | Notes              | concercte.                              | <u> </u>               | ر مما خاب (  | me SS sam                              | placed anywhere<br>pic stroud be      |
| -            |        |                    | There a                                 | 45 , <u>close</u>      | es possible  | tonorts                                | - only occasion                       |
|              |        |                    | - Proposed                              | sub-slob<br>undoor and | Still Yellow | sampling la                            |                                       |
|              |        |                    |                                         |                        | -1. 1. 3     | . /                                    |                                       |

# NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

| Preparer's Name           | dor Neur             | an             | _ Date/Time Prep                      | ared <b>3//6//0</b> |
|---------------------------|----------------------|----------------|---------------------------------------|---------------------|
| Preparer's Affiliation    | hACTEL               |                | _ Phone No. <u>}</u>                  | 7-775-5401          |
| Purpose of Investigation  | Vagor Tito           | rusion In      | restigation                           | <u> </u>            |
| 1. OCCUPANT:              | ( Program )          | 12.00          | 0043K                                 |                     |
| Interviewed: 🔗 / N        |                      |                |                                       |                     |
| Last Name: Mars           | <b>.sco</b>          | First Name:    | To±                                   |                     |
| Address: 60 A             | tinkel St.           | <b>.</b>       | <u> </u>                              | ·                   |
| County: Massan            |                      |                |                                       |                     |
| Home Phone:               | Offic                | e Phone: 5     | 6-333-/                               | 086                 |
| Number of Occupants/pers  | ons at this location | 1 12 A         | ge of Occupants _                     | 20 – 5°             |
| 2. OWNER OR LANDLO        | ORD: (Check if sa    | ame as occupan | t <u></u>                             |                     |
| Interviewed: Ø/N          | 4 2,                 |                |                                       |                     |
| Last Name:                | F                    | irst Name:     |                                       |                     |
| Address:                  | ·<br>                |                | · :                                   |                     |
| County:                   |                      |                |                                       |                     |
| Home Phone:               | Offic                | ce Phone:      | · · · · · · · · · · · · · · · · · · · |                     |
|                           |                      |                |                                       |                     |
| 3. BUILDING CHARAC        | TERISTICS            |                |                                       |                     |
| Type of Building: (Circle | appropriate respon   | nse)           |                                       |                     |
| Residential<br>Industria! | School<br>Church     | Commerci       | al/Multi-use                          |                     |

| If the property is residential, type? (Circle appropriate response)                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ranch 2-Family 3-Family Raised Ranch Split Leyet Colonia: Cape Cod Contemporary Mobile Home Duplex Apartment House Townhouses/Condos Modular Log Home Other: |
| If multiple units, how many?                                                                                                                                 |
| If the property is commercial, type?                                                                                                                         |
| Business Type(s) Shores & office                                                                                                                             |
| Does it include residences (i.e., multi-use)? Y/ J If yes, how many?                                                                                         |
| Other characteristics:                                                                                                                                       |
| Number of floors Building age 60                                                                                                                             |
| Is the building insulated (Y) N How air tight? Tight / (verage / Not Tight                                                                                   |
| 4. AIRFLOW                                                                                                                                                   |
| Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:                                                               |
| Airflow between floors V/A                                                                                                                                   |
| Airflow between floors                                                                                                                                       |
| Airflow between floors                                                                                                                                       |
| Airflow between floors                                                                                                                                       |
| Airflow near source                                                                                                                                          |
|                                                                                                                                                              |
|                                                                                                                                                              |
|                                                                                                                                                              |
|                                                                                                                                                              |
| Airflow near source                                                                                                                                          |
| Airflow near source                                                                                                                                          |
| Airflow near source                                                                                                                                          |

| 5. BASEMENT AND CO                                                                   | STRUCTION C                    | HARACTERIST        | ITCS (Circle all that a | ppły)         |
|--------------------------------------------------------------------------------------|--------------------------------|--------------------|-------------------------|---------------|
| a. Above grade construc                                                              | tion: wood fr                  | ame concrete       | ) stone                 | brick         |
| b. Basement type: 🎉                                                                  | <b>/</b> ≠ fell                | crawlsp            | ice stab                | other         |
| c. Basement floor: 🕟                                                                 | concrete                       | e dirt             | stone                   | other         |
| d. Basement floor: 🖊                                                                 | a uncover                      | ed covered         | covered with            |               |
| e. Concrete floor:                                                                   | dnseate                        | <b>5</b> sealed    | sealed with_            |               |
| f. Foundation walls:                                                                 | Course                         | block              | stone                   | other         |
| g. Foundation walls:                                                                 | emseale                        | sealed             | sealed with_            |               |
| h. The basement is:                                                                  | N/4 Wet                        | demp               | dry                     | moldy         |
| i. The basement is:                                                                  | Finished                       | l unfinish         | ed partially finis      | hed .         |
| j. Sump present? 🔑                                                                   | / <b>6</b> Y/N                 |                    |                         |               |
| k. Water in sump?                                                                    | Y/N/ncl appl                   | icable             |                         |               |
| cracks will                                                                          | es                             |                    |                         |               |
| 6. HEATING, VENTING  Type of heating system(s) u  Hot air circulation  Space Heaters | sed in this buildin<br>Heat pi | g: (circle all tha | 77.7                    | ry)           |
| Electric baseboard                                                                   | Wood.                          |                    | Outdoor wood boiler     | Other         |
| The primary type of fuel us                                                          | ed is:                         |                    |                         |               |
| Electric<br>Wood                                                                     | Fuel O<br>Propat<br>Coal       |                    | Kerosene<br>Solar       |               |
| Domestic hot water tank fu                                                           | eled by:                       | ч о,               | ·                       |               |
| Boiler/furnace located in:                                                           | Basement                       | Outdoors           | Main Floor              | Other roof do |
| Air conditioning:                                                                    | Central Air                    | Window units       | Open Windows            | None          |

| 4                                                                                                                                 |                                          |           |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------|
| Are there air distribution ducts present? 🙋/ N                                                                                    |                                          |           |
| Describe the supply and cold air return ductwork, and its there is a cold air return and the tightness of duct joints. I diagram. |                                          |           |
| •                                                                                                                                 |                                          |           |
|                                                                                                                                   |                                          |           |
|                                                                                                                                   | ·                                        |           |
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|                                                                                                                                   | · · · · · · · · · · · · · · · · · · ·    |           |
|                                                                                                                                   |                                          |           |
| 7. OCCUPANCY                                                                                                                      | <i>f</i>                                 |           |
| Is basement/lowest level occupied? Full-time Occa                                                                                 | asionally Seldom Almost Never            |           |
| Level General Use of Each Floor (e.g., familyroo                                                                                  | om, bedroom, laundry, workshop, storage) |           |
| Basement                                                                                                                          | <u> </u>                                 |           |
| Is Floor bakelop shower of                                                                                                        | Hies                                     |           |
| 2 nd Floor                                                                                                             |                                          |           |
| 3 rd Floor                                                                                                             |                                          |           |
| 4 th Floor                                                                                                             | · · · · · · · · · · · · · · · · · · ·    |           |
| 8. FACTORS THAT MAY INFLUENCE INDOOR AIR                                                                                          | OHALETY                                  | •         |
| a. Is there an attached garage?                                                                                                   | Y ET .                                   |           |
| <u> </u>                                                                                                                          | _                                        |           |
| h. Does the garage have a separate heating unit?                                                                                  | M/N/K                                    |           |
| <ul> <li>c. Are petroleum-powered machines or vehicles<br/>stored in the garage (e.g., lawnmower, atv, car)</li> </ul>            | Y/N/NA<br>Please specify                 |           |
| d. Has the building ever had a fire?                                                                                              | Y / When?                                |           |
| c. Is a kerosene or unvented gas space heater present?                                                                            | Y / Where?                               |           |
| f. Is there a workshop or hobby/craft area?                                                                                       | Where & Type? becked showing             | grante    |
| g. Is there smoking in the building?                                                                                              | N How frequently?                        | , #401444 |

Y/ >> When & Type? _____

Y 🐼 When & Type? _____

h. Have cleaning products been used recently?

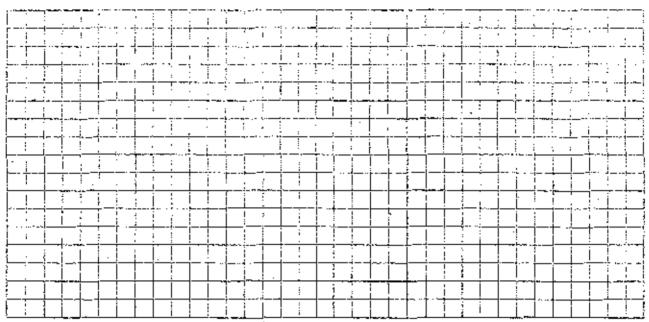
i. Have cosmetic products been used recently?

| j. Has painting/stai                                                      | ning been done i                                           | n the last 6 mo                  | nths? Y 💰          | Where & Wh        | en?                  |
|---------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------|--------------------|-------------------|----------------------|
| k. Is there new car                                                       | pet, drapes or ot                                          | her textiles?                    | γ/ <b>©</b>        | Where & Who       | en?                  |
| l. Have air freshen                                                       | ers been used rec                                          | ently?                           | Y/ <b>5</b>        | When & Type       | e?                   |
| m. Is there a kitche                                                      | en exhaust fan?                                            |                                  | Y / <b>©</b>       | If yes, where     | vented?              |
| n. Is there a bathr                                                       | oom exhaust fan                                            | ?                                | ØК                 | If yes, where     | vented? roof         |
| o. Is there a clothes                                                     | dryer?                                                     |                                  | (Ø). Y             | If yes, is it ver | nted outside? Y / N  |
| p. Has there been a                                                       | pesticide applic                                           | ation?                           | Y/ <b>®</b>        | When & Type       | ?                    |
| Are there odors in<br>If yes, please descr                                |                                                            |                                  | Y / <b>©</b> )     |                   |                      |
| Do any of the buildin<br>(e.g., chemical manufa<br>boiler mechanic, pesti | cturing or laborat                                         | ory, auto mech:                  |                    | shop, painting    | , fuel oil delivery, |
| If yes, what types of                                                     | f solvents are used                                        | i?                               | <u> </u>           |                   |                      |
| If yes, are their clott                                                   | nes washed at wor                                          | rk?                              | Y/N                | MA                |                      |
| Do any of the buildio<br>response)                                        | g occupants regi                                           | ilarly use or w                  | ork at a dry-clea  | ning service?     | (Circle appropriate  |
| Yes, use dry-c                                                            | leaning regularly<br>leaning infrequer<br>dry-cleaning ser | tly (monthly or                  | less)              | No<br>Unknown     |                      |
| Is there a radon miti<br>Is the system active o                           |                                                            | the building/s<br>Active/Passive | tructure? Y/S      | Date of Instal    | lation:              |
| 9. WATER AND SE                                                           | WAGE                                                       |                                  |                    |                   |                      |
| Water Supply:                                                             | Cublic Water                                               | Drilled Well                     | Driven Well        | Dug Well          | Other:               |
| Sewage Disposal:                                                          | ublic Sewer                                                | Septic Tank                      | Leach Field        | Dry Well          | Other:               |
| 10. RELOCATION                                                            | NFORMATION                                                 | l (for oil spill r               | esidential emerg   | елсу)             |                      |
| a. Provide reaso:                                                         | is why relocation                                          | is recommend                     | led: 🔑             | W                 |                      |
| h. Residents choo                                                         | ose to: remain in l                                        | nome reloc                       | ate to friends/fam | rily reioc        | ate to hotel/motel   |
| c. Responsibility                                                         | for costs associa                                          | ted with reimb                   | ursement explai    | ned? Y/N          | ;                    |
| d. Relocation pa-                                                         | ckage provided a                                           | nd explained t                   | o residents?       | Y/5               | i                    |

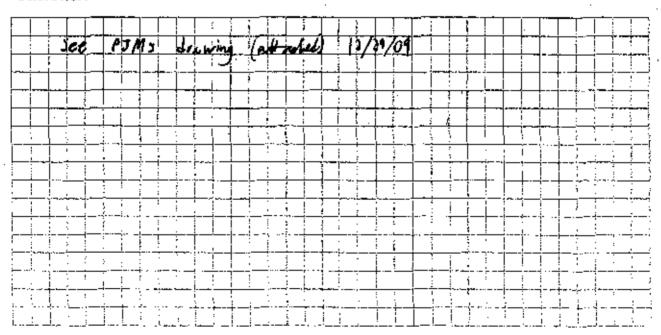
## 11. PLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: No lasent



## First Floor:



# K

#### 12, OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

|                                                       | PS Ins                                | the second                                       | (attached)                              | MYNO!                                            | ··                                      |
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#### 13. PRODUCT INVENTORY FORM

| Make & Model of field instrument used: | Pob | Rac |  |
|----------------------------------------|-----|-----|--|
| _                                      | 17  |     |  |

List specific products found in the residence that have the potential to affect indoor air quality.

hote: aggetted automotive products the bricents in solorage room.

| Location                                      | Product Description                                    | Size<br>(units) | Condition* | Chemic       | al Îngredients                                               | Field<br>Instrument<br>Reading<br>(units) | Photo Y/N                                        |
|-----------------------------------------------|--------------------------------------------------------|-----------------|------------|--------------|--------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|
| Storage                                       | Restolan                                               | lan             | U          | acchae       | vylene                                                       | 424                                       | N                                                |
| wer                                           | Brake Shot                                             | lan             | V          | alred po     | galkylene stradylm<br>yalkylene strad e<br>potoslem postajdo | # 27                                      | Y                                                |
| <b>~</b> *                                    | whole litting grow                                     | اصي             | 0 -        | 112 cottal   | مكوعا وموسعا أميلهم                                          | 19.83                                     | Y                                                |
| 1645                                          | Arstolan<br>Brake Shot<br>Wolfe litting grown<br>Wolfe | کومی            | U6 -       | Kalanak      |                                                              | ν//                                       | -1                                               |
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^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.



MACTEC Engineering and Cansulfing, Inc. 107 Audubon Road, Bldg. 2, Suite 301 Wakefield, MA 01880 JOB NO. NC/A SHEET OF 1

PHASE 36/2092127 TASK D5:0]

JOB NAME 62 Kinkel St. Farmer LAKA

BY FIM DATE 12 29 09

CHECKEO BY DATE

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| ¥ 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ***                                   |                |                                         |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | OH                                    | office.        | J. J. J.                                |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | .647           | - C                                     |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | 277            | [30043K-IA-02]                          | _                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | ·              | re l                                    | 4.                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MORES MACTER Y                        | west whose her | Her office space,                       | n ~{\t\-<<br>.b-s\nib |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | <u> </u>       | the building A su                       | -{tho+                |
| j.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | space, (                              | Tipossible .   |                                         |                       |
| :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | IA - proposed                         | Indoor or c    | ampling location                        | ,                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SS proposed.                          | 525-2166 S     | H raper Sampling love                   | †′•∽ ·                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |                |                                         |                       |

# NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

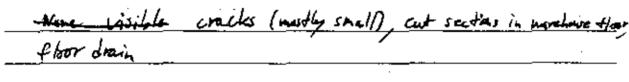
This form must be completed for each residence involved in indoor air testing.

| Preparer's Name                   | ida Neuman                   | Date/Time Prep      | ared <b>1////</b>   | 2 3:45           |
|-----------------------------------|------------------------------|---------------------|---------------------|------------------|
| Preparer's Affiliation            | MAC75C                       | Phone No. 🔾         | 07 <u>- 775 - 5</u> | <u> 4</u> 01     |
| Purpose of Investigation          | Vyper Interior               | Tarestigates        |                     |                  |
| 1. OCCUPANT:                      | (NYSVEC )                    | [TE #  300724]      |                     |                  |
| Interviewed: 🔊 N                  |                              |                     |                     |                  |
| Last Name: 5 chen                 | per First No                 | ame: Charles        | Срг                 | (reger stronger  |
| Last Name: Schner<br>Address: 750 | Symme Ave                    | e Westlany 1        | 1590                |                  |
| County: Nassau                    |                              |                     |                     |                  |
| Home Phone:                       | Office Phon                  | ne:                 | _                   |                  |
| Number of Occupants/pers          | ons at this location <u></u> | Age of Occupants    |                     |                  |
| 2. OWNER OR LANDLO                | ORD: (Check if same as       | occupant)           |                     |                  |
| Interviewed: Y                    | <del></del>                  |                     |                     |                  |
| Last Name:                        | First Na                     | me:                 | 75                  | O Summe Aco. LLC |
| Address:                          |                              |                     | . 4                 | ugh by Springe   |
| County:                           |                              |                     | 4                   | ssociates        |
| Home Phone:                       | Office Pho                   | ne:                 | _                   |                  |
| •                                 |                              |                     |                     |                  |
| 3. BUILDING CHARAC                | TERISTICS                    |                     |                     |                  |
| Type of Building: (Circle         | appropriate response)        |                     |                     |                  |
| Reticential<br>Industria          |                              | Ommercial/Multi-use |                     |                  |

| If the property is residentia                          | il, type? (Circle appropria                                            | ile response)                                                     |                                       |             |
|--------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|-------------|
| Ranch<br>Raised Ranch<br>Cape Cod<br>Duplex<br>Modular | 2-Family<br>Split Level<br>Contemporary<br>Apartment House<br>Log Home | 3-Pamily<br>Colonial<br>Mobile Home<br>Townhouses/Condo<br>Other: |                                       |             |
| If multiple units, how many                            | y?                                                                     |                                                                   |                                       |             |
| If the property is commerc                             | ial, type?                                                             |                                                                   |                                       |             |
| Business Type(s)                                       | one annoth;                                                            | Somety EZA                                                        | moderal faci                          | 114         |
|                                                        | es (i.e., multi-ușe)? · Y /                                            |                                                                   |                                       |             |
| Other observetorickour                                 |                                                                        |                                                                   |                                       |             |
| Number of floors 2                                     | ( mostly 15tory) wild                                                  | fing age 1167                                                     |                                       |             |
| ts the building insulated                              | 7 Y How                                                                | air tight? Tight / A ver                                          | rage / Not Tiph                       |             |
| 4. AIRFLOW                                             |                                                                        |                                                                   |                                       |             |
| Use air current tubes or tra                           | acer smoke to evaluate a                                               | irflow patterns and q                                             | ualitatively descrit                  | be:         |
| Airflow between floors                                 | NA                                                                     |                                                                   |                                       |             |
|                                                        |                                                                        |                                                                   | ·                                     |             |
|                                                        |                                                                        |                                                                   | · · · · · · · · · · · · · · · · · · · |             |
| Airflow near source                                    | · .                                                                    | •                                                                 | •                                     | •           |
|                                                        | <u></u>                                                                |                                                                   | <u>/</u>                              | <del></del> |
|                                                        |                                                                        |                                                                   |                                       |             |
|                                                        |                                                                        |                                                                   |                                       |             |
| Outdoor air infiltration                               |                                                                        |                                                                   |                                       |             |
| <del></del>                                            |                                                                        |                                                                   |                                       |             |
|                                                        |                                                                        |                                                                   | , , , , , , , , , , , , , , , , , , , |             |
| Infiltration into air ducts                            |                                                                        |                                                                   |                                       |             |
|                                                        | <u>-</u>                                                               |                                                                   | <del>_</del>                          |             |
|                                                        | <del></del>                                                            | <del></del>                                                       |                                       |             |

_

| a. Above grade construction:       | wood frame         | concrete<br>b/g/s | stone            | brick                     |
|------------------------------------|--------------------|-------------------|------------------|---------------------------|
| b. Basement type: VA               | ful:               | prawlspace        | slab             | other                     |
| c. Basement floor: MA              | concrete           | din               | stone            | other                     |
| d. Easement floor: MA              | uncovered          | covered           | covered wi       | th <del>poster untr</del> |
| e. Concrete floor:                 | unsealed           | (saled)           | scaled with      |                           |
| f. Foundation walls:               | Contac             | block             | stone            | other                     |
| g. Foundation walls:               | unsealed           | sealed            | sealed with      | 1                         |
| h. The basement is:                | wet                | đamp              | dry              | moldy                     |
| i. The basement is: W/4            | finished           | unfinished        | partially fir    | nished                    |
| j. Sump present?                   | Y/N                |                   |                  |                           |
| k. Water in sump? Y/               | N / net applicable | >                 |                  |                           |
| asement/Lowest level depth below   | w grade:           | _(feet)           |                  |                           |
| lentify potential soil vapor entry | points and appro   | ximate size (e.s  | z., eraeks, utii | lity ports, drains)       |



6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply - note primary)

| Space Heaters (uchee) Electric baseboard | Heat pump<br>Stream radiation<br>Wood stove | Hot water baseboard<br>Radiant floor<br>Outdoor wood boiler | Other |
|------------------------------------------|---------------------------------------------|-------------------------------------------------------------|-------|
|                                          |                                             | 00000                                                       |       |

The primary type of fuel used is:

| Fue! Oil Propane Coal | Kerosene<br>Solar |
|-----------------------|-------------------|
|                       |                   |

Domestic hot water tank fueled by: ___

Boiler/furnace located in: Outdoors Basement Main Floor

Air conditioning: Central Air Window at Open Windows None

Other_

|   |   | _   | ١ |
|---|---|-----|---|
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|   | • | 1 V | , |

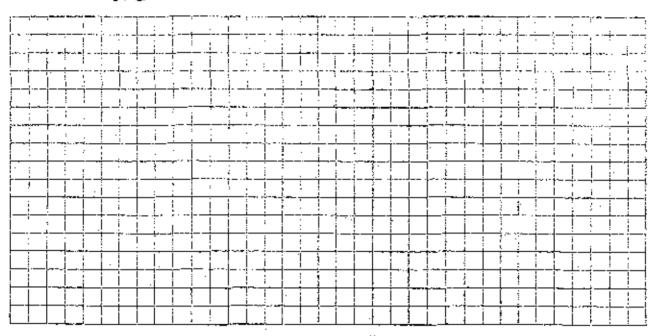
| Are there air distribution ducts present?                                                                                                  |                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Describe the supply and cold air return ductwork, and its c<br>there is a cold air return and the tightness of duct joints. In<br>diagram. |                                          |
| _                                                                                                                                          |                                          |
|                                                                                                                                            |                                          |
| ·                                                                                                                                          | · · · · · · · · · · · · · · · · · · ·    |
|                                                                                                                                            | <del></del>                              |
| 1                                                                                                                                          |                                          |
|                                                                                                                                            |                                          |
| . OCCUPANCY                                                                                                                                | • •                                      |
|                                                                                                                                            |                                          |
| Is basement/lowest level occupied? Full-time Occas                                                                                         | sionally Seldom elmost Never aren't      |
| Level General Use of Each Floor (e.g., familyroo                                                                                           | om, bedroom, laundry, workshop, storage) |
| Basement                                                                                                                                   |                                          |
| ,                                                                                                                                          |                                          |
| 1st Floor wavelieve                                                                                                                        | <del></del>                              |
| ond Floor 644 Kes                                                                                                                          | <del> </del>                             |
| Floor                                                                                                                                      |                                          |
| 4 th Floor                                                                                                                      |                                          |
| •                                                                                                                                          |                                          |
| 8. FACTORS THAT MAY INFLUENCE INDOOR AIR (                                                                                                 | QUALITY                                  |
| a. Is there an attached garage?                                                                                                            | Y/87                                     |
| b. Does the garage have a separate heating unit?                                                                                           | . Y/N 🐠                                  |
| c. Are petroleum-powered machines or vehicles                                                                                              | Y/N/MA)                                  |
| stored in the garage (e.g., lawnmower, atv, car)                                                                                           | Please specify                           |
| d. Has the building ever had a fire?                                                                                                       | Y /4 When?                               |
| e. Is a kerosene or unvented gas space heater present?                                                                                     | Y / <b>(D)</b> Where?                    |
| f. Is there a workshop or hobby/craft area?                                                                                                | Y/ Where & Type?                         |
| g. Is there smoking in the building?                                                                                                       | Y/ D How frequently?                     |
| b. Have cleaning products been used recently?                                                                                              | Y / When & Type?                         |
| i. Have cosmetic products been used recently?                                                                                              |                                          |
| v make cosmene brouncts been used tecsutifit                                                                                               | Y 💋 When & Type?                         |

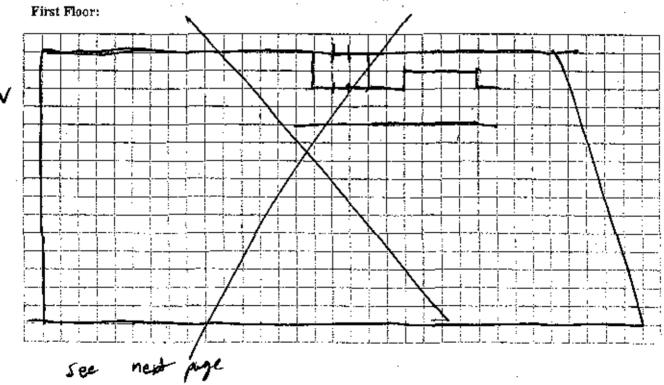
| 1. Has painting/staining been done in the last 6 months?                                                                                                                   | where & when?                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| k. Is there new carpet, drapes or other textiles?                                                                                                                          | Y / 🛈 Where & When?                                             |
| 1. Have air fresheners been used recently?                                                                                                                                 | Y / 🗗 When & Type?                                              |
| m. Is there a kitchen exhaust fan?                                                                                                                                         | Y / V If yes, where vented?                                     |
| n. Is there a bathroom exhaust fan?                                                                                                                                        | Ø/N If yes, where vented? / / / / / / / / / / / / / / / / / / / |
| o. Is there a clothes dryer?                                                                                                                                               | Y 🔊 If yes, is it vented outside? Y / N                         |
| p. Has there been a posticide application?                                                                                                                                 | Y 🕟 When & Type?                                                |
| Are there odors in the building?  If yes, please describe:                                                                                                                 | Y 🕡                                                             |
| Do any of the building occupants use solvents at work? (e.g., chemical manufacturing or laboratory, auto mechanic or boiler mechanic, pesticide application, cosmetologist |                                                                 |
| If yes, what types of solvents are used?                                                                                                                                   | <del></del>                                                     |
| If yes, are their clothes washed at work?                                                                                                                                  | Y/N                                                             |
| Do any of the building occupants regularly use or work at seesponse)                                                                                                       | a dry-cleaning service? (Circle appropriate                     |
| Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service                                          | Cic<br>Unknown                                                  |
| Is there a radon mitigation system for the building/structur Is the system active or passive?  Active/Passive                                                              | re? Y / Date of Installation:                                   |
| 9. WATER AND SEWAGE                                                                                                                                                        | • •                                                             |
| Water Supply: Public Water Drifted Well Drive                                                                                                                              | en Well Dug Weil Other:                                         |
| Sewage Disposal: Public Sewer Septic Tank Leac                                                                                                                             | h Field Dry Well Other:                                         |
| 10. RELOCATION INFORMATION (for oil spill resident                                                                                                                         | tial emergency)                                                 |
| a. Provide reasons why relocation is recommended:                                                                                                                          | YIA                                                             |
| b. Residents choose to: remain in home relocate to fi                                                                                                                      | riends/family relocate to hotel/motel                           |
| c. Responsibility for costs associated with reimbursem                                                                                                                     | ent explained? Y/N                                              |
| d. Relocation package provided and explained to resid                                                                                                                      | ents? Y/N                                                       |

#### 11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: Note

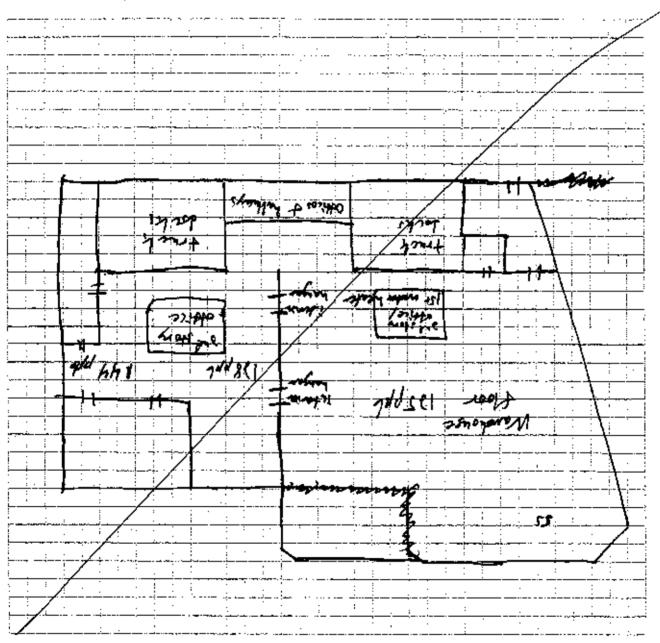




#### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



again, see estached; it's difficult to key truck of layer layout

1

### 13. PRODUCT INVENTORY FORM

| Make & Model of field instrument used: | 1   | .6 | RAF |  |
|----------------------------------------|-----|----|-----|--|
|                                        | -,, |    |     |  |

List specific products found in the residence that have the potential to affect indoor air quality.

Nohe

| Location | Product Description | Size<br>(units)      | Condition*                                   | Chemical Ingredients | Field<br>Instrument<br>Reading<br>(units) | Photo Y/N                                        |
|----------|---------------------|----------------------|----------------------------------------------|----------------------|-------------------------------------------|--------------------------------------------------|
|          |                     | }                    |                                              |                      | 1                                         | <br>                                             |
|          |                     |                      | <br>                                         |                      | , <del></del>                             |                                                  |
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|          |                     |                      |                                              |                      |                                           | +                                                |

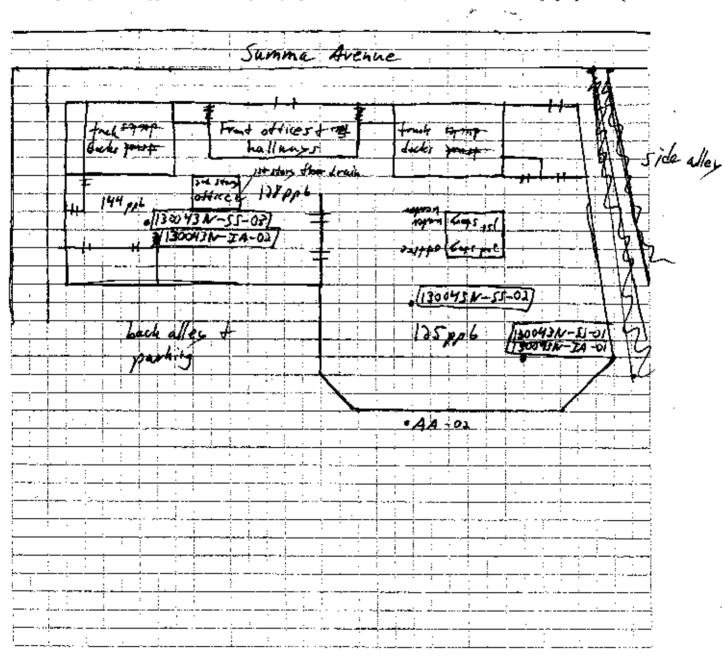
^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

#### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



# 1"

| Make & Model of field instrument used: |
|----------------------------------------|
|----------------------------------------|

List specific products found in the residence that have the potential to affect indoor air quality.

| Location | Product Description | Size<br>(units) | Condition*     | Chemical Ingredients | Field<br>Instrument<br>Reading<br>(units) | Photo " Y/N |
|----------|---------------------|-----------------|----------------|----------------------|-------------------------------------------|-------------|
| · •      |                     | ļ               |                |                      | · · · ·                                   |             |
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|          | *****               | <u> </u>        |                |                      |                                           |             |
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|          |                     |                 |                |                      |                                           |             |
|          |                     |                 |                |                      | <del> </del>                              |             |

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

'P/\Sections\STS\O() \$pills\Guidence Decs\OSR-3,6cc

| MACTEC<br>107 Audi  | Engineering            | ACTEC 3 and Consulting, Inc. Bldg. 2, Suite 301                                                    | JOB NO. NUA  PHASE 3612692127  JOB NAME 29 NOW YOR  BY TEM  CHECKED BY | - TASK <u>07.01</u><br>0/K AVC <u>Tishion</u> (on<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                     | ·                      | Sylvester St.                                                                                      | storage area                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                     | :                      | /LS                                                                                                | 55 -01 5 (130<br>(130 ) (130 ) (130 ) (130 ) (130 ) (130 ) (130 )      | 1300 H3N -I4-01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                     | 2                      | [364]V-14-91                                                                                       | onet × ss × ss                                                         | W.K. Ave.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                     | Sy bester              | Note - Sub-slab Si                                                                                 | points can be placed                                                   | Now Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                     |                        | (214) 333-4-24                                                                                     | 1                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| !                   | · ···-· <del> </del> i | CE - cotch bein, an                                                                                | proximale location                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

| Preparer's Name Rick Walzak Date/Time Prepared 2/17/10 13:02                           |
|----------------------------------------------------------------------------------------|
| Preparer's Affiliation Mactee Eng. + Cons. Phone No. 207-775-5401                      |
| Purpose of Investigation Soil Vapor Intrusion investigation a                          |
| 1. OCCUPANT:                                                                           |
| Interviewed: XN                                                                        |
| Last Name: Jacoby First Name: Jim                                                      |
| Last Name: Jacoby First Name: Jim  Address: 29 New York Ave                            |
| County: DC Nassau                                                                      |
| Home Phone: Office Phone: 5/6-333-7577                                                 |
| Number of Occupants/persons at this location $\frac{250}{50}$ Age of Occupants $20-64$ |
| 2. OWNER OR LANDLORD: (Check if same as occupant)                                      |
| Interviewed: Y(N)                                                                      |
| Last Name:Pirst Name:                                                                  |
| Address:                                                                               |
| County:                                                                                |
| Home Phone: Office Phone:                                                              |
| 3. BUILDING CHARACTERISTICS                                                            |
| Type of Building: (Circle appropriate response)                                        |
| Residential School Commercial/Multi-use findustrial Church Other:                      |

| Rauch<br>Raised Ranch<br>Cape Cod<br>Duplex<br>Modular | 2-Family Split Lovel Contemporary Apartment House Log Home | 3-Pamily<br>Colonial<br>Mobile Home<br>Townhouses/Cond<br>Other: |                                       |
|--------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|
| If multiple units, how many?                           | <u>NA 1</u>                                                |                                                                  |                                       |
| If the property is commercial                          | type?                                                      | , ~                                                              | . 67                                  |
| Business Type(s)                                       | manufacturing                                              | 4/ office                                                        | space and Floor.                      |
| Does it include residences                             | 10                                                         | <b>L</b>                                                         | / many?                               |
| Other characteristics:                                 | •                                                          | • .                                                              |                                       |
| Number of floors                                       | Buildin                                                    | ng age 245                                                       |                                       |
| Is the building insulated? Y                           | How a                                                      | ir tight? Tight Av                                               | erage / Not Tight                     |
| 4. AIRFLOW                                             |                                                            |                                                                  |                                       |
| Use air current tubes or trace                         | er smoke to evaluate air                                   | rflow patterns and                                               | qualitatively describe:               |
| Airflow between floors Through she                     | rwell                                                      |                                                                  |                                       |
| Airflow near source                                    | <u> </u>                                                   | <u> </u>                                                         | · · · · · · · · · · · · · · · · · · · |
|                                                        |                                                            |                                                                  |                                       |
|                                                        |                                                            |                                                                  |                                       |
| Outdoor air infiltration Sarage de                     | on Two reg                                                 | ular doors.                                                      | Large opening                         |
| Infiltration into air ducts  No Gir duc                | t <u>c</u>                                                 |                                                                  |                                       |

If the property is residential, type? (Circle appropriate response)

| 5. BASEMENT AND CON                 | STRUCTION CHARA                      | CTERISTICS       | (Circle all that ap | pply)                    |
|-------------------------------------|--------------------------------------|------------------|---------------------|--------------------------|
| a. Above grade construc             | tion: wood frame (                   | concrete         | stone               | brick                    |
| b. Basement type:                   | ful!                                 | crawispace       | slab                | other <u>NA</u>          |
| c. Basement floor:                  | concrete                             | dirt             | stone               | other <u>NA</u>          |
| d. Basement floor:                  | uncovered                            | covered          | covered with        | NA                       |
| e. Concrete floor:                  | unsealed                             | sealed           | sealed with         | Painted                  |
| f. Foundation walls:                | poured                               | block            | stone               | other ?                  |
| g. Foundation walls:                | unsealed                             | sealed           | sealed with _       | <del>?</del>             |
| h. The basement is:                 | wet                                  | damp             | dry                 | moldy None               |
| i. The basement is:                 | finished                             | unfinished       | partially finish    | hed NA                   |
| j. Sump present?                    | Y / 🕅                                |                  |                     |                          |
| k. Water in sump?                   | Y/N/not applicable                   |                  |                     | ·                        |
| Basement/Lowest level depth         | below grade: NA                      | (feet)           |                     |                          |
| Identify potential soil vapor       | entry points and approx              | rimate size (e.ç | g., cracks, utility | ports, drains)           |
|                                     |                                      |                  |                     | • , ,                    |
| Concrete slot-                      | : ' <b>:</b>                         | $\rho$ , $\pm$ 1 | /                   | +-1                      |
| Concrete state                      | gemi.                                | resi coa         | ks compe            | Cany                     |
|                                     |                                      | <del></del>      |                     | <del></del> _            |
|                                     |                                      |                  |                     |                          |
| 6. HEATING, VENTING                 | and AIR CONDITIONI                   | NG (Circle all   | that apply)         |                          |
| Type of heating system(s) us        | sed in this building: (circ          | ele all that app | ly – note prima:    | ry)                      |
| Hot air circulation                 | Heat pump                            | Hot              | water baseboard     |                          |
| Space Heaters<br>Electric baseboard | Stream radiati-<br>Wood stove        |                  | ant floor           | Other Gas Fred           |
|                                     |                                      | Outo             | loor wood boiler    | Other <u>Grey 711</u> ex |
| The primary type of fuel us         | ea is:                               |                  |                     |                          |
| Natural Gas                         | Fuel Oil                             | _                | osene               |                          |
| Electric:<br>Wood                   | Propane<br>Coal                      | Sola             | I                   | •                        |
| Domestic hot water tank fu-         | /                                    | HA Elect         | ric weter           | heater                   |
|                                     | •                                    |                  |                     | Other None               |
| Boiler/furnace located in:          | Basement Outde                       | oors Mai         | Fioor               | Other_None_              |
| Air conditioning:                   | (Central Air ) Wind                  | ow units Ope     | n Windows           | None                     |
|                                     | D. Mar M.                            | - o.C            |                     |                          |
|                                     | - $\sigma$ ria $\pm i D D = O I I D$ | C (* N           |                     |                          |

Are there air distribution ducts present?



Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

| NA                                                                                             |                                |          |
|------------------------------------------------------------------------------------------------|--------------------------------|----------|
| · · · · · · · · · · · · · · · · · · ·                                                          |                                | _        |
|                                                                                                |                                | _        |
|                                                                                                |                                |          |
| 7. OCCUPANCY                                                                                   |                                |          |
| Is basement/lowest level occupied? Full-time Occasionally                                      | Seldom Almost Never            | No basen |
| Level General Use of Each Floor (e.g., familyroom, bedroo                                      | m, laundry, workshop, storage) |          |
| Basement MA                                                                                    | ·                              |          |
| 1ª Floor Light manufacturing/                                                                  | ······                         |          |
| 2nd Floor Offices                                                                              | ··-                            |          |
| 3 rd Floor NA                                                                       |                                |          |
| 4 th Floor NA                                                                       | · .<br>                        |          |
| 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY                                               |                                |          |
| a. Is there an attached garage?                                                                | <b>у</b> 🕟                     |          |
| b. Does the garage have a separate heating unit?                                               | Y/K (NA)                       |          |
| c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, stv, car) | Y / N (Na) Please specify      |          |
| d. Has the building ever had a fire?                                                           | Y/N When? ?.                   |          |
| e. Is a kerosene or unvented gas space heater present?                                         | Y N Where?                     | _        |
| f. Is there a workshop or hobby/craft area?                                                    | Where & Type? Nort do          | 2£.      |
| g. Is there smoking in the building?                                                           | How frequently?                | _        |
| h. Have cleaning products been used recently?                                                  | When & Type? Every da          | <b>×</b> |
| i. Have cosmetic products been used recently? $\partial/N$                                     | When & Type? ON Y DX HIE       | Women    |

| j. Has painting/staining been done in the last 6 months?                                                                          | Y Where & When?                           |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--|--|--|
| k. Is there new carpet, drapes or other textiles?                                                                                 | Y N Where & When?                         |  |  |  |
| I. Have air fresheners been used recently?                                                                                        | YN When & Type?                           |  |  |  |
| m. Is there a kitchen exhaust fan?                                                                                                | Y N If yes, where vented?                 |  |  |  |
| n. Is there a bathroom exhaust fan?                                                                                               | Y (N) If yes, where vented?               |  |  |  |
| o. Is there a clothes dryer?                                                                                                      | Y (N) If yes, is it vented outside? Y / N |  |  |  |
| p. Has there been a pesticide application?                                                                                        | Y N When & Type?                          |  |  |  |
| Are there odors in the building?  If yes, please describe:                                                                        | Y/N                                       |  |  |  |
| (e.g., chemical manufacturing or laboratory, auto mechanic or a boiler mechanic, pesticide application, cosmetologist             |                                           |  |  |  |
| If yes, what types of solvents are used? Mall Clean or                                                                            | 19 products                               |  |  |  |
| If yes, are their clothes washed at work?                                                                                         | YN                                        |  |  |  |
| Do any of the building occupants regularly use or work at a response)                                                             | dry-cleaning service? (Circle appropriate |  |  |  |
| Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service | Unknown                                   |  |  |  |
| Is there a radon mitigation system for the building/structure Is the system active or passive?  Active/Passive                    | e? Y N Date of Installation:              |  |  |  |
| 9. WATER AND SEWAGE                                                                                                               |                                           |  |  |  |
| Water Supply: Public Water Drilled Well Oriver                                                                                    | n Well Dug Well Other:                    |  |  |  |
| Sewage Disposal: Fuolic Sewer Septic Tank Leach                                                                                   | Field Dry Well Other:                     |  |  |  |
| 10. RELOCATION INFORMATION (for oil spill residentia                                                                              | al emergency)                             |  |  |  |
| a. Provide reasons why retocation is recommended:                                                                                 |                                           |  |  |  |
| b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel                                         |                                           |  |  |  |
| c. Responsibility for costs associated with reimbursemen                                                                          | nt explained? Y/N                         |  |  |  |
| d. Relocation package provided and explained to reside                                                                            | nts?                                      |  |  |  |

#### 11. FLOOR PLANS

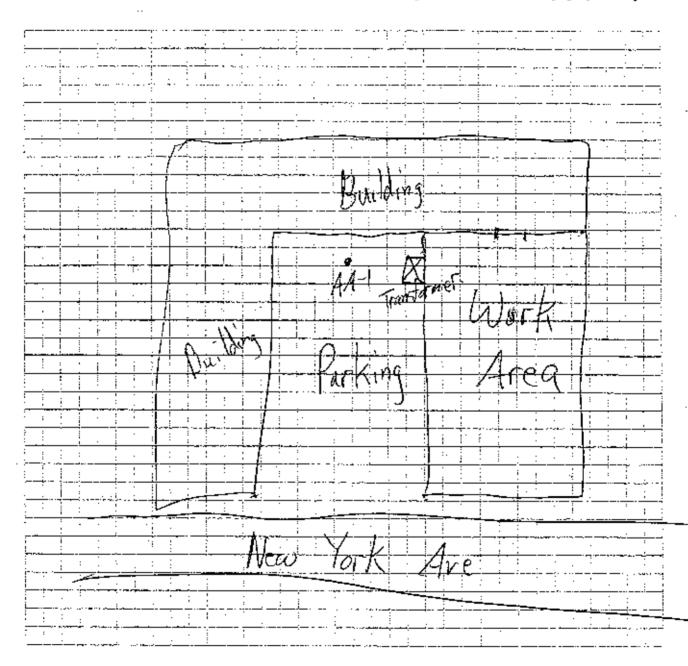
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

No Basenert. Basement: Concrete Slahs Sout First Floor: (400 ppb) PID Readings 100 Stairs Fork lift Door way

#### 12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



| 13 | PRODUCT | INVENTORY | FORM |
|----|---------|-----------|------|
|    |         |           |      |

List specific products found in the residence that have the potential to affect indoor air quality.

| Location    | Product Description                   | Size<br>(units)                                  | Condition  | Chemical Ingredients                                                     | Field<br>Instrument<br>Reading<br>(units) | Photo " Y/N           |
|-------------|---------------------------------------|--------------------------------------------------|------------|--------------------------------------------------------------------------|-------------------------------------------|-----------------------|
| Robotli     | es Mold cleaner                       | 1602<br>Sofay                                    | o.K.       | Perchlowethylene Tolken,<br>Actour CO2<br>Titanium Diorde, Aluminan Oxid | Buckgrown                                 | N                     |
| 7 e         | Plastic Colorants                     | Seelo                                            | to Guot    | Titaniam Diorde, Alaminan Dinin<br>Clicon Norde, Zirconiam Dinin         | de ci                                     | N                     |
| te          | Acid Vanor Newtral                    | er 16                                            | ot som con | Sticon Nieride, Zirconium Niovia                                         | /1                                        | $\mathcal{N}_{\perp}$ |
| Cage        | Cleaners                              | Gallen                                           | Good       | Single Green, Pine-Sol, Lysol, Windex                                    | c.                                        | N                     |
| i.          |                                       |                                                  |            | Denetured Akond WI- 40                                                   |                                           |                       |
|             |                                       |                                                  |            | Floor cleaner, Canof xyle                                                | ne .                                      |                       |
|             | ,                                     |                                                  |            |                                                                          |                                           |                       |
| <b>_</b> ·  |                                       |                                                  |            | · · ·                                                                    |                                           |                       |
|             | · · · · · · · · · · · · · · · · · · · | ···-                                             |            | · · · ·                                                                  | <u></u>                                   |                       |
| :           |                                       | <del>}</del>                                     | <u> </u>   |                                                                          | <u> </u>                                  |                       |
|             | · · · · · · · · · · · · · · · · · · · | <del>                                     </del> | <u> </u>   |                                                                          | -                                         | _                     |
| •           |                                       | <del>                                     </del> | •          |                                                                          |                                           |                       |
| :           |                                       | <del>                                     </del> | <u>!</u>   | <u> </u>                                                                 | <u> </u>                                  |                       |
| <del></del> | <u> </u>                              |                                                  |            |                                                                          |                                           |                       |
|             | <u> </u>                              | -                                                | 1          |                                                                          | <u> </u>                                  |                       |
|             |                                       |                                                  | <u></u>    |                                                                          | <u> </u>                                  |                       |
|             |                                       |                                                  |            |                                                                          |                                           | <u>{</u>              |
|             | <u>i</u>                              | 1                                                |            |                                                                          | <u> </u>                                  |                       |
|             |                                       | 1                                                |            |                                                                          | ļ                                         |                       |
|             |                                       |                                                  |            |                                                                          |                                           |                       |

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

## APPENDIX C

PHOTOGRAPHIC LOG

# **New Cassel Photos – IMC Magnetics (130043A)**



Chemical Storage 1st Floor 1



Chemical Storage 1st Floor 2



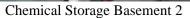
Chemical Storage 1st Floor 3



Chemical Storage 1st Floor 4



Chemical Storage Basement 1







IA-01 SS-01





SS-03

Vocational School Basement



Vocational School Classroom



Vocational School Computer Cluster



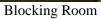
Vocational School East



Vocational School West

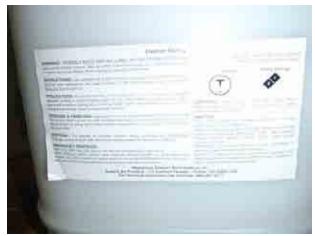
## **New Cassel Photos – Atlas Graphics (130043B)**







Chemical Inventory 1



Chemical Inventory 2



Chemical Inventory 3



Chemical Inventory 4



Chemical Inventory 5



Chemical Inventory 6



Chemical Inventory 7



Chemical Inventory 8





Chemical Inventory 10



Chemical Inventory 11





**Etching Room** 

Front Office





SS-02

Stripping Room





Workshop 1

Workshop 2

# New Cassel Photos – Tishcon Corp, 125 State St. (130043C)





Ambient Air Sample at Structure C



Chemical Inventory at Structure C



Sampling Completed at Sub-Slab-01



Conducting Helium Leak Test at Sub-Slab-03



Indoor Air-02

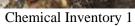




Indoor Air-03 Sub-Slab-02

# **New Cassel Photos – Former Tishcon Corp (130043F)**









Northern Storage 1



Northern Storage 2

Page 1 of 3





Southern Storage 1



Southern Storage Batteries 1



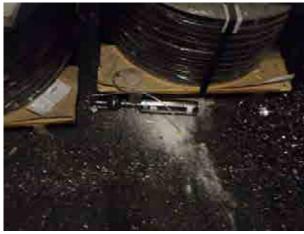
Southern Storage Batteries 2





Southern Storage Batteries 3

Southern Storage Oil Spill





SS-02 SS-03

## New Cassel Photos – Former LAKA Industries, Inc. (130043K)





Chemical Inventory

Hallway & Bathroom







Show Room



SS-01



SS-02





SS-03 Storage Room

# New Cassel Photos – Former EZ-EM, Inc. (130043N)











SS-01 SS-02





SS-03

Warehouse South Center





Warehouse Southwest

Warehouse West

### APPENDIX D

DIRECT PUSH SOIL BORING LOGS

|              | Projec               | ct 1                                            | VIA                                    | -                    |              |                                                                                                            |                      | Boring/We            | ∥ No.<br><b>– Ì</b>        | Project i<br>36/2 | 10.<br>0921 | 27    |             |
|--------------|----------------------|-------------------------------------------------|----------------------------------------|----------------------|--------------|------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------------|-------------------|-------------|-------|-------------|
|              | Client               | NY                                              | ,DEU                                   |                      | Site         | Shee! N                                                                                                    |                      |                      |                            |                   | of          | 3     |             |
|              | Logge                | ed By                                           | 3.5 hu                                 | V                    | Groui        | nd Elevation                                                                                               | ish Date<br>15-19-10 |                      |                            |                   |             |       |             |
|              | <u> </u>             |                                                 | or Azte                                |                      |              | Driller's Name                                                                                             | Bob (                | Gunin                | Rig Type                   | True              | k 7         | nount | <u>بر د</u> |
|              | Orllling             | g Method                                        | Direct                                 | ? Pue                | h            | Protection Level                                                                                           | 9   10.6   -         |                      |                            |                   |             |       | 3           |
|              | Soil D               | rilled2                                         | 5! Rock                                | Drilled<br>          | -            | Total Dopth                                                                                                | Deoth                | to Groundwat         | er/Date                    | Piez Well Boring  |             |       |             |
|              | Depth(Fect)          | Sampte No. &<br>Penctration/<br>Recovery (Feet) | SPT Blows/6"<br>or<br>Core Acc./Aqd. % | SPT-N<br>(Blows/ft.) |              | Sam                                                                                                        |                      | USCS<br>Group Symbol | Pi Meter<br>Field Scan 😇 💆 | m)                | iD Sample   |       |             |
| 51<br>(Ano   | 1-<br>2-<br>3-<br>4- | 2/50                                            | 52%                                    | NA                   | 0.2-<br>1/2- | Asphalts 1-2 (OMCrete 26 Lt oliv the gravel, for p, NT (sp)(Fil -5 Lt Brown Ty graded, M                   | (%)                  | 0.6                  | PP                         |                   |             |       |             |
| 52<br>- 1412 | 7<br>                | 5.0                                             | {o %                                   | NA                   | - (1-4       | 5-10 v. little recovery:  1:ght gred, in course Sand, file to course, poorly graded, toose, dump;  NP.(SP) |                      |                      |                            |                   | 0.6         |       |             |
|              |                      |                                                 |                                        | :                    |              | A                                                                                                          | ,<br>,               |                      |                            | 1                 | j           |       |             |
|              | 2                    | MAC<br>511 Congre<br>Portland, M                | ss Stoet                               |                      |              | N                                                                                                          | YSDEC                | QUALITY A            | SSURANCE                   | SOIL BO           |             | £0¢G  | ð           |

|                 |             |                                              |                                        |                      |                                          | SOI                                                | L BOF                                                     | RING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LOG                                                                           |                                                         |                      |                     |         |                        |  |
|-----------------|-------------|----------------------------------------------|----------------------------------------|----------------------|------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------|----------------------|---------------------|---------|------------------------|--|
|                 | Projec      | νt<br>N                                      | HA                                     |                      |                                          |                                                    |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3oring/We                                                                     | li No.                                                  | Project I            | No.<br>1204         | 2127    | ,                      |  |
|                 | Client      | NYS                                          | DEL                                    |                      | Site                                     | 29 1                                               | 1ew )                                                     | ork                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ave                                                                           | Sheet No.                                               | 2_                   | _ of                | 3       |                        |  |
|                 | Loggs       |                                              | Shan                                   |                      | Groui                                    | Start Date 05-19-10 Finish Date 05                 |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               |                                                         |                      |                     | 5-14-10 |                        |  |
|                 | Driftla     | g Contract                                   | or A21.                                | uh                   | Driller's Name Brb G                     |                                                    |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Gunon                                                                         | Rig Type                                                | Truck                | Mov                 | nte     | $\Box$                 |  |
|                 | ſ           | g Method                                     | Direc                                  |                      | s٢                                       | Protection                                         | Level i                                                   | d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | P.I.D. (eV)                                                                   | •                                                       | Auger                | Size /              | v'      |                        |  |
|                 | Soil D      | rilled $\sim 2^{t}$                          | Rock                                   | Drilled              |                                          | Total Dep                                          | 251                                                       | Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | to Groundwate                                                                 | er/Date                                                 | Piez                 | Well                | Boring  |                        |  |
|                 | Depth(Feat) | Sample No. & Penetration/<br>Recovery (Feet) | SPT Blows/6"<br>or<br>Core Rec./Rqd. % | SPT-N<br>(Blows/Ft.) |                                          |                                                    | Sampl                                                     | le Des                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | scription                                                                     |                                                         | USCS<br>Group Symbol | Pl Meter Scan 30 99 |         | Lab Teşts<br>ID Sample |  |
| 53<br>C<br>1417 | 11-12-13-14 | 3.5                                          | 70%                                    | ฟล                   | M}<br>105 -<br>Sand<br>~14               | (SM)<br>15 HB<br>1, firess<br>), well<br>filme gm  | wown to<br>and to<br>a grasped<br>aver is                 | o yeal<br>fibe q<br>deco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | y, NP ₎ Mi<br>rounded (                                            | nge on loans<br>see gravel (<br>Servery<br>(w)          |                      | 0.b                 | ppro    |                        |  |
| 54<br>E<br>1426 | 1)   1      | 2/52                                         | 58%                                    | N/A                  | 15-1° soud<br>wedl<br>19-2<br>San<br>96) | five sur<br>gradedy<br>O DE ve<br>a, I fo<br>down, | mnye v<br>un to<br>unders<br>uldishlo<br>me gim<br>unders | tive of the or to the range of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c | carely Some<br>carely Some<br>consey down<br>the Brown,<br>trace fine<br>(SP) | un course<br>e granely<br>1, NP(Su)<br>acourse<br>Sundy | Svl                  | 1.4                 |         |                        |  |
|                 |             |                                              |                                        |                      |                                          | -                                                  | <u>{</u>                                                  | /<br>r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |                                                         |                      |                     |         | )\r                    |  |
|                 | #           | MAC<br>511 Congres<br>Peritand, Mi           | ss Steet                               |                      |                                          |                                                    | NY                                                        | SDEC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | QUALITY A                                                                     | S<br>SSURANCE                                           | OIL BO               |                     | ւբգլ    |                        |  |

|        | SOIL BORING LOG                                       |                                                            |          |                 |                                         |                        |             |                          |                        |            |                        |  |  |
|--------|-------------------------------------------------------|------------------------------------------------------------|----------|-----------------|-----------------------------------------|------------------------|-------------|--------------------------|------------------------|------------|------------------------|--|--|
|        | Project 10                                            | A                                                          |          |                 |                                         | Boring/Well            | No.         | Project I<br><b>3</b> 61 | No.<br>2047            | 427        |                        |  |  |
|        | Client NY                                             | SDEC_                                                      | Site     | 29 Now          | Sheet No                                | 3 of 3                 |             |                          |                        |            |                        |  |  |
|        | Logged By                                             | . Snavl                                                    | <u> </u> | nd Elevation    |                                         | 05-19-10               | _           | nish Date<br>05-19 - 10  |                        |            |                        |  |  |
|        | Drilling Contracto                                    | "Attech                                                    |          | Driller's Name  | Bob (                                   | Gannon                 | Rig Type -  | g Type Truck Mounte      |                        |            | a                      |  |  |
|        | Drilling Method                                       | Direct Pu                                                  | I        | Protection Leve |                                         | 2.1.D. (eV)            | Casing Size |                          |                        |            |                        |  |  |
|        | Soil Orilled                                          | Rock Orilled                                               | \        | Total Depth     | Depth                                   | to Groundwate          | ar/Date     | Piez                     | Well                   | Boring     |                        |  |  |
|        | (a)                                                   |                                                            |          |                 | •                                       |                        |             | ō                        |                        | Monitoring |                        |  |  |
|        | Depth(Feet) Sample No. 8 Penetration/ ecovery (Fee    | SPT Blows/6"<br>or<br>or Rec./Rqd.<br>SPT-N<br>(Blows/Ft.) |          | San             | nole De                                 | scription              |             | USCS<br>Group Symbol     |                        |            | Lab Tests<br>ID Sample |  |  |
|        | Depth(Feet) Sample No. & Penetration/ Recovery (Feet) | SPT Blows/6" or Core Rec./Rqd. % SPT-N (Blaws/Ft.)         |          |                 | .,                                      |                        | Group       | Pi Meter<br>Field Scan   | Pi Meter<br>Head Space | tab<br>D S |                        |  |  |
|        | 20 }                                                  |                                                            | 20-      | 23.5 Km         | ringe 1                                 | BANN MEG               | utje sand   | ·                        |                        |            |                        |  |  |
| SS     | 24                                                    | ·                                                          | 17474    | e fine gra      | vel, 86                                 | ) Denson,              | damp, NP,   | 50                       | 1.0                    | pp≃        | -                      |  |  |
| ς<br>Θ | 22- 2.3                                               |                                                            | 73.5°    | e fine grad     | INGE m                                  | course sav             | d, trace    | -                        | i.4                    |            |                        |  |  |
| 1435   | 23 5.0                                                | 46% NA                                                     | CAG      | asesand 1       | fine ga                                 | mvel, PG,              | dump,       | 1                        | ,                      |            |                        |  |  |
| 1177   | 24                                                    | Ì                                                          | И        | P (SP)          |                                         |                        |             | SI                       | 1.6                    | İ          |                        |  |  |
|        | 25                                                    |                                                            |          |                 |                                         | <u> </u>               |             | <u>기</u>                 | 1.8                    |            | $\mathscr{X}$          |  |  |
|        | '-                                                    |                                                            | (        | (13604)         | المح                                    | Sumple C               | D9-1        |                          |                        |            |                        |  |  |
|        |                                                       |                                                            |          |                 |                                         |                        |             | 1                        |                        |            |                        |  |  |
|        |                                                       |                                                            |          | - 3             | <b>Late</b>                             | (me OH, D<br>mors ture | 1)          |                          |                        |            |                        |  |  |
|        |                                                       |                                                            |          | - 1             | 2,                                      | mors fore              |             |                          |                        |            |                        |  |  |
|        | <u> </u>                                              | 1                                                          |          | \               |                                         |                        |             | }                        |                        |            |                        |  |  |
|        |                                                       |                                                            |          |                 |                                         |                        |             |                          |                        | ļ          |                        |  |  |
|        |                                                       |                                                            |          |                 | <b>₩</b>                                |                        |             |                          | <u> </u>               |            |                        |  |  |
|        |                                                       |                                                            |          |                 | ٠,                                      |                        |             |                          | i                      | •          |                        |  |  |
|        | ,                                                     | <u> </u>                                                   |          |                 |                                         |                        |             |                          | { //                   | RI         | <br> <br>              |  |  |
|        | en a co                                               | THE CO                                                     |          |                 |                                         |                        |             |                          | $\mathcal{I}$          | 6/2        | lo l                   |  |  |
|        | MAC'                                                  | s Steet                                                    |          |                 | NASDEC                                  | QUALITY AS             |             | OIL BO                   |                        | ĹOG        | 1                      |  |  |
|        | Portland, ME                                          | : 101101                                                   |          |                 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , GOMENT AC            | SSOTIANCE   | · HOGE                   | - WILL                 | -M14       |                        |  |  |

|                  |                |                                                 |                                        |                      |                                                                                                                                                               | 9                         | SOIL B                                                     | ORIN              | GL     | .OG        |              |                      |                             |                        |                        |  |  |
|------------------|----------------|-------------------------------------------------|----------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------|-------------------|--------|------------|--------------|----------------------|-----------------------------|------------------------|------------------------|--|--|
|                  | Projec         | ı, N                                            | UA                                     |                      |                                                                                                                                                               |                           |                                                            | Boring/Well No. P |        |            |              |                      |                             | Project No. 36/2092127 |                        |  |  |
|                  | Client         | M                                               | (50±0                                  | · · · · · ·          | Site                                                                                                                                                          | 29                        | 29 New York Are Sheet No. 1                                |                   |        |            |              |                      |                             | 3                      |                        |  |  |
|                  | Logge          | 9                                               | - Sha                                  |                      |                                                                                                                                                               | ·                         |                                                            |                   |        |            |              |                      | sh Date<br>65-14-10         |                        |                        |  |  |
|                  | Drillin        | g Contract                                      | tor Azt                                | uh.                  |                                                                                                                                                               | "-                        |                                                            |                   |        |            |              |                      | ruck mouted                 |                        |                        |  |  |
|                  | Drillin        | g Method                                        | Direct                                 | t Dw                 | <u>ε</u> η                                                                                                                                                    | l                         | ection Leve                                                | _                 | P      | I.D. (eV)  | Casing Siz   |                      | 12"                         |                        |                        |  |  |
|                  | Soil D         | rilled 25                                       | Rock                                   | Drilled              |                                                                                                                                                               | Total                     | 1 Depth                                                    | ( Dep             | ath to | Groundwate | er/Date      | Plez                 | z Well Boring               |                        |                        |  |  |
|                  | Depth(Feat)    | Sample No. &<br>Penetration/<br>Recovery (Feet) | SPT Blows/6"<br>or<br>Core Rec./Rqd. % | SPT-N<br>(Blows/Rt.) |                                                                                                                                                               |                           |                                                            | nple C            | )esc   | ription    |              | USCS<br>Group Symbol | Pl Meter<br>Field Scan 30 0 | ٠,                     | Lab Tests<br>ID Sample |  |  |
| 1500             | 1              | 3.2/51                                          | 647.                                   | NA                   | 112 -<br>115 -<br>111<br>100 J                                                                                                                                | 1.5<br>7 50<br>7.5<br>7.5 | phalt<br>Concred<br>Brown:<br>and, 1th<br>aps, w<br>moist, | - 1               |        | e.4        | ρ <b>.</b> Ξ |                      |                             |                        |                        |  |  |
| 52<br>(°<br>1507 | 6-<br>7-<br>8- | 3.f<br>5.0                                      | (,6%                                   | NA                   | 15-9.5 Ltorange brown to brack in places, lourse sure, finesand to fine gravel, poortraveled, mourse, damp, uf, qui-10 chun micarse sund, PG, damp, love, NP, |                           |                                                            |                   |        |            |              |                      |                             | 0.4                    |                        |  |  |
|                  |                | MAC                                             | TEC                                    |                      |                                                                                                                                                               |                           | <b>A</b> 6,                                                | _                 |        |            |              | OIL BO               |                             | (LØ/G                  | i)to                   |  |  |
|                  |                | Portland, M                                     |                                        |                      |                                                                                                                                                               |                           |                                                            | NYSD              | EC O   | UALITY A   | SSURANCE     | PROGR                | RAM P                       | LAN                    |                        |  |  |

|                  | SOIL BORING LOG                 |                                                 |                                        |                      |                               |                                                                         |          |                  |           |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |  |  |
|------------------|---------------------------------|-------------------------------------------------|----------------------------------------|----------------------|-------------------------------|-------------------------------------------------------------------------|----------|------------------|-----------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|--|--|
|                  | Proje                           | ol N                                            | /IA                                    |                      |                               | Boring/Well No. P                                                       |          |                  |           |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   | Project No. 3612092127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |  |  |  |
|                  | Client                          | N                                               | SDEU                                   | ,                    | Site                          | Dita                                                                    |          |                  |           |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |  |  |
|                  | Logge                           | 4.0                                             | ·Sha•                                  | 4                    | Grou                          | round Elevation Start Date -19 - 10 Finish Date -19 - 10                |          |                  |           |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |  |  |
|                  | Drillin                         | g Contract                                      | or Azt                                 | ed                   |                               | Driller's Name Pol                                                      | o 6      | in hos           | F         |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Truck mounted     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |  |  |
|                  | Drillin                         | g Method                                        | Diroll                                 | i pr                 | Sh.                           |                                                                         | D.       | P.I,Ď. (eV       | ا ماران ا | asing Size    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |  |  |
|                  | Soll D                          | Prilled ₩                                       | Rock                                   | Drilled              | _                             | Total Depth                                                             |          | to Graund        |           | ate           | Plez                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Well              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |  |  |
|                  | . Capth(Feat)                   | Sample No. &<br>Penetration/<br>Recovery (Feet) | SPT Blows/6"<br>or<br>Core Rec./Rqd. % | SPT-N<br>(Btows/Ft.) | <u>-</u>                      | Sample Description                                                      |          |                  |           |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   | PI Meter (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Space (3 Guine Head Spa | Lab Tests<br>ID Sample |  |  |  |
| च्य<br>(^<br>५११ | 13-14                           | 39<br>5.0                                       | 78%                                    | NA                   | 12-11<br>12-11<br>(five<br>71 | Same as a<br>5 grange bro<br>Sound to fin<br>arel, PG, a<br>-gravelis m | ( 5p     | PI Meter         | !         | **₹           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |  |  |
|                  | 15-<br>16-<br>17-<br>15-<br>14- | 4.9                                             | 98%                                    | NA                   | 1615<br>Sma                   | bit same of - 20 Lt over so<br>e Manual of                              | 9e. 5v   | ∾n fiγ<br>- wall | ne sav    | يط<br>احداً ب | \$\frac{\partial \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex | 0.2<br>1.2<br>0.1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |  |  |  |
| <del></del>      | 25                              | MAC                                             | TEC                                    |                      |                               |                                                                         | <u>/</u> |                  |           |               | -<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IGUR!             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6/2/10                 |  |  |  |
|                  |                                 | S11 Congra<br>Portland, M                       |                                        |                      |                               | NY                                                                      | SDEC     | QUALIT           | Y ASSI    | S<br>JRANCE   | OIL BO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                      |  |  |  |

|                  |                       |                                                 |                                        |                      |       | SC                                             | HL BO       | RING     | LOG          |                                |                                                   |                        |                        |                        |  |  |  |
|------------------|-----------------------|-------------------------------------------------|----------------------------------------|----------------------|-------|------------------------------------------------|-------------|----------|--------------|--------------------------------|---------------------------------------------------|------------------------|------------------------|------------------------|--|--|--|
|                  | Projec                | T)                                              | nk                                     |                      |       |                                                |             |          | Boring/We    | ll No.<br>・ <b>ス</b>           | Project I                                         | Project No. 7 2 127    |                        |                        |  |  |  |
|                  | Client                | NYS                                             | DEL                                    |                      | Site  | 29                                             | New         | Vort     | 4 AVU        | Sheet No.                      | 3                                                 | _ of                   | 3                      | _                      |  |  |  |
|                  | Logge                 | ed By                                           | . su                                   |                      | Grou  | nd Eleva                                       | tion        | Star     | 05-H-1       | Ø Fini                         | ish Date<br>りち                                    | ate<br>05-19-10        |                        |                        |  |  |  |
|                  | Driftin               | g Contract                                      | or A2+                                 | ech                  |       | Driller's Name Bob Gunnon Rig Type TY          |             |          |              |                                |                                                   |                        | rick Mouted            |                        |  |  |  |
|                  | Drillin               | g Method                                        | Direc                                  | _                    | SN    | Protection Level D P.J.D. (eV) Casing Size     |             |          |              |                                |                                                   | Auger Size             |                        |                        |  |  |  |
|                  | Soil D                | rilled 25                                       | Roc                                    | k Drilled            | /     | Total De                                       | epth<br>~25 | Depth    | to Groundwat | er/Date                        | Piez                                              | Well                   |                        |                        |  |  |  |
|                  | tì                    | &<br>n'<br>set)                                 | 6.<br>d. %                             | )                    |       |                                                |             |          |              |                                |                                                   | Monit                  | iloting                |                        |  |  |  |
|                  | Depth(Feet)           | Sample No. &<br>Penetration/<br>lecovery (Fee   | SPT Blows/6"<br>or<br>ore Rec./Rad.    | SPT-N<br>(Blows/Ft.) |       |                                                | Same        | ole Des  | scription    |                                | USCS<br>Group Symbol                              |                        |                        | Lab Tests<br>fO Sample |  |  |  |
|                  | Dept                  | Sample No. &<br>Penetration/<br>Recovery (Feet) | SPT Blows/6*<br>or<br>Core Asc./Aqd. % | (B)                  |       |                                                |             |          | •            |                                | Group                                             | PI Meter<br>Field Scan | Pl Meter<br>Head Space | Cab<br>fo S            |  |  |  |
|                  | 21                    |                                                 | •                                      | 1 1                  | 35    | وسادا                                          | (as land    | الالعادس | lorenge by   | wa                             | <del>                                      </del> | i                      |                        |                        |  |  |  |
| 55               | 21—                   |                                                 |                                        |                      | 20-20 | arse to                                        | Course      | e Sim    | d, little    | our<br>fine Studi<br>cump, 188 | 9                                                 | 0.2                    | 192                    | <b>.</b>               |  |  |  |
| €25<br>(%)       | 22                    | 4-3                                             | 0) OF                                  | h/a                  | ło    | fgru                                           | ivel, p     | G, A     | ibensk, d    | amp, us                        |                                                   | 0.1                    |                        |                        |  |  |  |
| الاعط            | 23                    | 7.6                                             | 00 0                                   | MA                   |       |                                                |             |          |              |                                |                                                   | 0.1                    |                        |                        |  |  |  |
| Į53 <del>5</del> | :<br>الس <b>ار</b> ر- | <b>3</b>                                        |                                        | 1                    |       |                                                |             |          |              |                                |                                                   | 0.3                    | j                      | ⊛€                     |  |  |  |
|                  | 271<br>  25_          |                                                 |                                        |                      |       |                                                |             |          |              | •                              |                                                   | 0.2                    |                        |                        |  |  |  |
|                  | -                     |                                                 |                                        |                      | Ŧ     | @ 24 bgs                                       |             |          |              |                                |                                                   |                        |                        |                        |  |  |  |
|                  |                       |                                                 |                                        |                      |       | (P) 24                                         | 1 595       |          |              |                                |                                                   |                        |                        |                        |  |  |  |
|                  | -                     |                                                 |                                        |                      | '     | 130043V-NP2Z4 & 1540.<br>-3 vats<br>-2 mosture |             |          |              |                                |                                                   |                        |                        |                        |  |  |  |
|                  | -                     |                                                 |                                        |                      |       | _                                              | <u> </u>    | √p/A     | +5           |                                |                                                   |                        |                        |                        |  |  |  |
|                  | -                     |                                                 |                                        |                      |       |                                                | ع خس<br>د   | 7. A     | unsture      |                                | 1                                                 |                        |                        |                        |  |  |  |
| :                |                       |                                                 |                                        |                      |       |                                                |             |          |              | _                              | 1                                                 |                        |                        |                        |  |  |  |
|                  |                       |                                                 |                                        | ļ<br>i               |       |                                                |             |          |              | <del></del>                    | 1                                                 |                        |                        |                        |  |  |  |
|                  |                       |                                                 |                                        |                      |       |                                                |             | ,        |              | <b>P</b> (5                    | -                                                 |                        |                        |                        |  |  |  |
|                  |                       |                                                 | _                                      | <u></u>              | L     |                                                |             | $\neq$   |              |                                |                                                   |                        |                        | <u> </u>               |  |  |  |
|                  |                       |                                                 |                                        |                      |       |                                                | /           |          |              |                                |                                                   | 4                      | 榆                      |                        |  |  |  |
|                  | #                     | MAC                                             |                                        |                      |       |                                                |             |          |              | 5                              | F<br>OIL BO                                       | iGURI<br>BING          | 4/46\<br>  4/46\       | 14                     |  |  |  |
|                  |                       | S11 Congres<br>Portland, Mi                     |                                        |                      |       |                                                | N,          | YSDEC    | QUALITY A    | SSURANCE                       |                                                   |                        |                        |                        |  |  |  |

|           |                       | SOIL BORING LOG  Project NUA, SITE V Boring Well Np. Project No. 3612092127-67.                         |                                        |                      |                                   |                                    |                                                     |                             |                                              |                      |                           |            |                        |  |
|-----------|-----------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------|-----------------------------------|------------------------------------|-----------------------------------------------------|-----------------------------|----------------------------------------------|----------------------|---------------------------|------------|------------------------|--|
|           | Project               | ηl                                                                                                      | 71 A J                                 | ۶۰۲۰                 | = V                               |                                    |                                                     | Boring/Wel                  | <b>.</b>                                     | Project N<br>36/2    | No.<br>-092               | <b>リンフ</b> | . 67.                  |  |
|           | Client                | h1/2                                                                                                    | DEL                                    |                      | Site                              | westhing,                          | иγ,                                                 |                             | Sheet No.                                    | 1                    | _ of                      | 3          | _                      |  |
|           | Logge                 | d Ву <b>В</b>                                                                                           | Shaw                                   |                      | Groui                             | nd Elevation                       | Star                                                | t Date<br>05-19-10          | O Fini                                       | ish Date<br>05 - 1   | 9-10                      |            |                        |  |
|           | Drilling              | Contract                                                                                                | or Azt                                 | zeh                  |                                   | Driller's Name                     |                                                     |                             | Rig Type 7                                   | nut                  | Mou                       | ted        | _                      |  |
|           | Drilling              | Method                                                                                                  | Direct                                 | Pus                  | <br>                              | Protection Level                   | D                                                   | P.I.D. (eV)                 | Casing Siz                                   |                      | Auger                     | Size,      | /2 "                   |  |
|           | Soil Dr               | illed 15                                                                                                | Reck                                   | Drilled              | -                                 | Total Depth 25                     | Depth                                               | to Groundwate               | er/Date                                      | Pięz                 |                           | Soring     | -                      |  |
|           | Depth(Feet)           | Sample No. &<br>Penetration/<br>Recovery (Feet)                                                         | SPT Blows/6*<br>or<br>Core Rec./Rqd. % | SPT.N<br>(Blows/Ft.) |                                   | <del> </del>                       | 1                                                   | scription<br>\              | ,                                            | USCS<br>Group Symbol | Pl Motor<br>Field Scan 10 | m)         | Lab Tests<br>ID Sample |  |
| 1108<br>G | 1-<br>3-<br>4-        | 2.8                                                                                                     | 566                                    | NA                   | 3-0,3<br>3-7<br>1-5<br>5111<br>24 | 0,2 p                              |                                                     |                             |                                              |                      |                           |            |                        |  |
| Sz (6)4   | 5<br>6<br>7<br>8<br>9 | 2.5                                                                                                     | 50 <i>%</i>                            | NA                   | 8-1<br>Web<br>8-1                 | O light gre<br>1 NG, BUI<br>1300A3 | 1-5<br>( 5%<br>1-3d<br>1-3d<br>V-DP<br>3-204<br>7-0 | or, SP, M<br>pe a<br>flo an | gravel,<br>Deuse,<br>D <u>9-4</u> @ 9<br>640 | (SM)                 | 2.3                       |            | <b></b>                |  |
|           | 200                   | MAG                                                                                                     | TEC                                    |                      |                                   |                                    | <u>/</u>                                            | 45                          |                                              | -                    |                           | R          | el(°                   |  |
|           | <b>, 30</b>           | MACTEC  FIGURE 441    S11 Congress Steet    Portland, ME 04101    NYSDEC QUALITY ASSURANCE PROGRAM PLAN |                                        |                      |                                   |                                    |                                                     |                             |                                              |                      |                           |            |                        |  |

|           |             |                                                 |                                        |                      |       | SOIL BO                                 | RING              | LOG                         |                    |                      |                        |                        |                        |
|-----------|-------------|-------------------------------------------------|----------------------------------------|----------------------|-------|-----------------------------------------|-------------------|-----------------------------|--------------------|----------------------|------------------------|------------------------|------------------------|
|           | Projec      | NU.                                             | 1A                                     |                      |       |                                         |                   | Boring/Wel                  | 1 No.              | Project I            | 10.<br>209             | 2127                   | ~                      |
|           | Client      | MYS                                             | DEV                                    |                      | Site  | 29 New 16                               | rks A             | Ne                          | Sheet No.          | 2                    | of                     | 3                      | _                      |
|           | Logge       | *                                               | 3'5ha                                  |                      | Grou  | nd Elevation                            | Ştar<br>Ö         | t Date<br>5-19-10           | Fini               | sh Date<br>115-19    | -10                    |                        |                        |
|           | Drillin     | g Contract                                      | or Azto                                | wh                   |       | Driller's Name                          | eb G              | เแๆทอท                      | Rig Type _         | ruck                 | بري ۱۸ ــ              | ntea                   |                        |
|           | Drillin     | g Method                                        | Direct                                 | - Pus                | نا    | Protection Level                        | Ď                 | P.J.D. (eV)<br> 0, <b>6</b> | Casing Siz         | 9,000                | Auger                  | Size,                  | 124                    |
|           | Soil D      | rilled 21                                       | Rock                                   | Drilled              | /     | Total Depth                             | Depth             | to Groundwate               | er/Date            | Piez                 | Well Boring            |                        |                        |
|           | Depth(Feet) | Sample No. &<br>Penetration/<br>Recovery (Feet) | SPT Blows/6"<br>or<br>Core Rec./Rqd. % | SPT-N<br>(Blows/Ft.) |       | Sam                                     | ple Des           | scription                   |                    | USCS<br>Group Symbol | Monil<br>(pp           | m)                     | Lab Tests<br>ID Sample |
|           | Cept        | Samp<br>Pene<br>Recovi                          | SPT 6<br>Core Re                       | (BR)                 |       |                                         |                   |                             |                    | Group                | PI Meter<br>Field Scan | Pf Meter<br>Head Space | ar<br>ID S             |
| S₃<br>1°  | \(\         | 2.1                                             |                                        |                      | (e-1  | is alivary<br>an coause for<br>ease, NP | file              | m, mean                     | se send<br>1 damps | 16                   | 0.6                    | 10-                    |                        |
| 1645      | 13-         | 54                                              | 42%                                    | νĮΑ                  | الاسر | ense, nop                               |                   |                             |                    |                      | 0.4                    | <br>                   |                        |
|           | 14          | ·•                                              |                                        |                      |       |                                         | ·                 |                             |                    | -                    | 0,5                    | ł :                    |                        |
| 74<br>(** | [-          | Z.b                                             |                                        | l I                  |       | .0 Utillarl<br>rse sand n               | isk bi<br>uli v≥u | nun nood<br>ond, for, c     | rse te<br>tamp,    | \$p.                 | 0.4                    |                        |                        |
| 1 650     | 18          | 52                                              | 5190                                   | ΝA                   | Den   | uc, NP,                                 |                   |                             |                    |                      | 0.2                    |                        |                        |
|           | ر4<br>- مد  | <u>.</u>                                        | <u></u>                                |                      |       | ·                                       |                   |                             |                    | -                    | 8,2                    |                        |                        |
|           |             |                                                 |                                        |                      |       | <del></del>                             |                   |                             |                    |                      |                        | -<br>-                 |                        |
|           |             |                                                 |                                        | ]                    |       |                                         | ,<br>             | fr-                         |                    | -                    |                        |                        | <u> </u>               |
|           | 21          | MAC                                             | TEC                                    |                      |       | /                                       |                   |                             |                    |                      | (GUR                   |                        | 3/1/10                 |
|           |             | 511 Congres<br>Portland, Mi                     | ss Steet                               |                      |       | N                                       | YSDEC             | QUALITY A                   |                    | OIL BO               | RING                   | LØØ -                  | ι,                     |

|                 |                                              |                                                    |                                                                                                               | SO         | IL BO           | RING      | LOG                 |                       |                      |                       |        |                        |
|-----------------|----------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|-----------------|-----------|---------------------|-----------------------|----------------------|-----------------------|--------|------------------------|
|                 | Project NUIA                                 | <del> </del>                                       |                                                                                                               |            |                 | _         | Boring/We           | II Ng.`<br>2 <b>4</b> | Project              | No.<br>2042           | -127   |                        |
|                 | Client NVSDE                                 |                                                    | Site                                                                                                          | <b>7</b> 4 | New             | York      | c Ave               | Sheet No.             | 3                    | _ of                  |        | _                      |
|                 | Logged By B.S                                | nam                                                | Grou                                                                                                          | nd Elevai  | tlon            | Star<br>D | t Date<br>5 - 4- 10 | ) Fin                 | ish Date             | 19-                   | 10     |                        |
|                 | Drilling Contractor                          | aztech                                             |                                                                                                               | Driller's  | Name <b>)</b> , | ob (      | gunon               | Rig Type .            |                      |                       | o iuni | led                    |
|                 | Della Beatland                               | ٠                                                  | δ'n                                                                                                           |            | on Level        | D         | P.I.D. (eV)         | Casing Siz            |                      |                       | Size,  | 12.4                   |
|                 | Soil Drilled 25                              | Rock Drilled                                       | 1                                                                                                             | Total De   | 25 /            | Depth     | lo Groundwat        | er/Date               | Piez                 | Well                  | Boring | 9                      |
|                 | Sample No. & Penetration/<br>Recovery (Feet) | SPT Blows/6* or Cora Rec./Pqd. % SPT-N (Blows/Ft.) |                                                                                                               |            |                 |           | scription           |                       | USCS<br>Group Symbol | Pr Meter W Soan 30 00 | · ·    | Lab Tests<br>ID Sample |
| 55<br>C<br>1655 | 24;                                          | 40 (0 NA                                           | 22-25 source Sand (yellowsh brann to<br>orange brown), some fine growel, Pb,<br>damy, in Deuses to Deuse, UP. |            |                 |           |                     |                       |                      | 0.3                   | 3-     |                        |
|                 | 25                                           |                                                    | <b>→</b>                                                                                                      |            |                 | /1        | ,<br>13-            |                       | -                    |                       |        |                        |
|                 | MACT<br>S11 Congress 9<br>Portland, ME 0     |                                                    |                                                                                                               |            | N               | /SDEC     | QUALITY A           |                       | SOIL BO              |                       | ЦОД    | []<br>]                |

|                   | Project    | Ŋί                                              | //A                                    |                      |                     |           |                                 |         | Boring/We                                       | แ <u>พ๑</u> .<br>-5  | Project I            | 842                       | 127                |                        |
|-------------------|------------|-------------------------------------------------|----------------------------------------|----------------------|---------------------|-----------|---------------------------------|---------|-------------------------------------------------|----------------------|----------------------|---------------------------|--------------------|------------------------|
|                   | Client     | ИΥ                                              | SDEL                                   |                      | Site                | 29        | New                             | York    | AVU                                             | Sheet No.            | 1                    | _ of _2                   |                    | ]                      |
|                   | Logged     | ву 13                                           | She                                    | 4                    | Grou                | nd Elevat | tion                            | Star    | t Date<br>55-19-10                              | ) Fin                | ish Date             | 5-16                      | i - 1 d            | j.                     |
|                   | Drilling t | Contract                                        | or #2+                                 | och                  |                     | Driller's | Name B                          | ob G    | gunon                                           | Rig Type             | True                 | KA                        | loinn              | ted                    |
|                   |            |                                                 | Direct                                 | t pu                 | s/h                 | Protecti  | on Level                        | D       | P.I.D. (eV)<br>(0,                              | Casing Siz           | · •                  | Auge                      | Size 2             | Jz"                    |
|                   | Şoil Orlli | ^{led} ∕25′                             | Rock                                   | Drilled              | _                   | Total De  | ^{epth} 25 ¹ | Depth   | to Groun <u>dwat</u>                            | er/Dale              | Piez                 | Well                      | Boring<br><b>U</b> | ~ _                    |
| · .               | اً يا      | Sample No. &<br>Penetration/<br>Recovery (Feet) | SPT Blows/6"<br>or<br>Core Rec./Rqd, % | SPT-N<br>(Blows/Ft.) |                     |           | Samp                            | ple Des | scription                                       |                      | USCS<br>Group Symbol | Pl Meter Scan 19 2        |                    | Lab Tests<br>ID Samplo |
| 51<br>(2)         |            | 5.6                                             | (8%                                    | MA                   | 03 -<br>9rnd<br>163 | M61,24    | own to<br>ce cou<br>t, ub       | (Se)    | 0.1                                             | <u>.</u>             |                      |                           |                    |                        |
| 52<br>(*)<br>1706 | 7 4        | 2-7                                             | 5470                                   | ŃΑ                   | 7-10                | o. Ora    | nge to                          | rum 4   | Coarseson<br>Danse, N<br>filme to M<br>nee, NO- | d and<br>I<br>course | -S1                  | 40.{<br>9.1<br>0.2<br>0.1 |                    |                        |
|                   |            | MAC 11 Cangles                                  |                                        |                      |                     | -         | 134.<br>N                       | YSDEC   | QUALITY A                                       | SSURANCE             | SOIL BO              |                           | ĽOG                |                        |

|                  |                         |                                                 |                                        |                      |                      | SOIL BOF                                                                                                                                     |                  | LOG           |              |                      |                             |          |                        |  |
|------------------|-------------------------|-------------------------------------------------|----------------------------------------|----------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|--------------|----------------------|-----------------------------|----------|------------------------|--|
| :                | Projec                  | n k                                             | /IA                                    |                      |                      |                                                                                                                                              |                  | Вогілд/Wel    | 1 No.<br>2-5 | Project              | N9121                       | 27       | ·                      |  |
|                  | Oltent                  | NYSD.                                           | EU                                     |                      | Site                 | 29 New Yo                                                                                                                                    | k,               | Ave           | Sheet No     | <u>, 2-</u>          | _ of                        | 3_       |                        |  |
|                  |                         | d By B                                          |                                        |                      | Grou                 | nd Elevation                                                                                                                                 | 1 -              | 105-14- L     | 0            | Inish Date<br>ان     | 5-14                        | - 20     | 10                     |  |
|                  | Drilling                | g Contract                                      | or Azt                                 | ech                  |                      | Driller's Name                                                                                                                               | b (              | gannon        | Яlg Тура     | Truck                | = pi                        | m/c      | 1                      |  |
|                  |                         | g Method                                        | Direc                                  |                      |                      | Protection Level                                                                                                                             | )                | P.I.D. (eV)   | Casing 8     | Size                 | Auger                       | Size     | 1/2"                   |  |
|                  | Soil D                  | rilled _ Z                                      | S Rock                                 | Drilled              |                      | Total Depth 25                                                                                                                               | Depth            | to Groundwate | er/Date      | Piez                 | Well                        | Boring   | ¥                      |  |
|                  | Depth(Feet)             | Sample No. &<br>Penetration/<br>Recovery (Feet) | SPT Blows/6"<br>of<br>Core Rec./Rqd, % | SPT-N<br>(Blows/Ft.) |                      | Sampl                                                                                                                                        | e De             | scription     |              | USCS<br>Group Symbol | Pi Meter<br>Field Scan (권 ) |          | Lab Tests<br>ID Sample |  |
| S                | 11-12-                  | G A                                             |                                        |                      | 10-11<br>ma<br>12-13 | 0-12 Brown in course sind, PG, Moone 0. inorth v. Strong olor, MP 2. 2-15 Lightler brown warse sand, fire saud to fine grown, PG, Dense, NP. |                  |               |              |                      |                             |          |                        |  |
| 720              | 13-<br>14-              | 4.0                                             | 60 70                                  | Na                   | sau<br>Ju            | d to five god<br>my; B cale                                                                                                                  | <b>₽</b> ₽       | 0.4           |              |                      |                             |          |                        |  |
| 54<br>(°<br>1730 | <br> 6<br> 7<br> Y      | 3/5                                             | 266                                    | ΝA                   | ×<br>9               | 20 (V. liftee<br>Accarse sommand, pg, MDs<br>trace fines, "                                                                                  | d _i f | ited should t | 6 Coarse     | ~  <br>              | 1.9                         |          | :<br>:                 |  |
|                  | 19—<br>2 <del>0</del> . |                                                 |                                        |                      |                      | Oposen+ w hy                                                                                                                                 | · mo             | istura        | ····         | -                    | 4.0                         | <u>@</u> |                        |  |
|                  | #                       | MAC<br>511 Congres<br>Portland, MB              | ss Stnet                               |                      |                      | NY                                                                                                                                           | ¥∱ţ<br>sdec      | : QUALITY A   | SSURANG      | SOIL BO              | IGURE<br>RING<br>RAM P      | A A      | gr/10                  |  |

|               |             |                                                 |                                              |                      |              | SOIL BO                                        | DRING         | G LOG                  |             |                      |                        |                        |                        |
|---------------|-------------|-------------------------------------------------|----------------------------------------------|----------------------|--------------|------------------------------------------------|---------------|------------------------|-------------|----------------------|------------------------|------------------------|------------------------|
|               | Projec      | ot No                                           | UIA                                          |                      | . <u>-</u> . |                                                |               | Boring/Well            | No.         | Project I            | 0921                   | 27                     |                        |
|               | Client      | NA                                              | DE                                           |                      | Site         | Westbary,                                      | NYT           | 24 New York            | Sheet No    | 3_                   | of 3                   | }                      | _                      |
|               | Logg        | į.                                              | s Sno                                        |                      |              | ınd Elevation                                  | Sta           | art Date 19-1          | a Finis     | h Date<br>∂5         | - 4q -                 | 10                     |                        |
|               | Drillin     | g Contract                                      | or AZ                                        | tech                 |              | Oriller's Name                                 | Bib           | Gunnon                 | Rig Type 7  | vud                  | c Mo                   | un fe                  | d                      |
|               |             | g Method                                        | Dire                                         |                      | wer.         | Protection Level                               | D             | P.I.D. (eV)<br>فأ، (أ) | Casing Size |                      | Auger                  | Size<br>2              | 1/2"                   |
|               | Soil D      | rilled 25                                       | ., Ac                                        | ck Drilled           |              | Total Depth 2                                  | Depti         | h to Groundwater       | /Oate       | Piez                 | Well                   | Boring                 | <i>y</i>               |
|               | . ⇒         | چ<br>ارا                                        | i cu                                         | e                    |              |                                                |               |                        |             | ğ                    | Monii<br>(pp           |                        |                        |
| ·<br>i        | Depth(Feet) | Sample No. &<br>Penetration/<br>Recovery (Feet) | SPT Blows/6"<br>or                           | SPT-N<br>Blows/Ft.)  |              | Sarr                                           | iple De       | escription             |             | USCS<br>Group Symbol |                        | г                      | Lab Tests<br>ID Sample |
|               | Depl        | Samp<br>Pene<br>Recov                           | SPT                                          | SPT-N<br>(Blows/Ft.) |              |                                                |               |                        |             | Group                | Pl Meter<br>Fiefd Scan | Pt Meter<br>Head Space | Lab<br>ED S            |
| 55            | - <b>1</b>  |                                                 |                                              | - [                  | 20-          | 25 readish                                     | JEVAN         | ge brame,              | Micarie     |                      | 0.2                    | PPE                    | -4                     |
| 550 B         | 70          | 31/                                             |                                              |                      | FRM<br>do    | 25 readish<br>ul, little o<br>alup, Dense,     | Louiga<br>NI. | MACKES OF              | my to.      | ] <b>sy</b>          | e. (                   |                        |                        |
| onti.         | 22          | 5.0                                             | 67.10                                        | , Milk               |              | Ter y Deven                                    | 1.1.          |                        |             | 1 '                  | 0.1                    | !                      |                        |
| <i>1</i> 1.7m | 25—;        |                                                 |                                              |                      |              |                                                |               |                        |             | †                    |                        |                        |                        |
|               | 4           |                                                 | :                                            |                      |              |                                                |               | ,                      |             | 1                    | 0-1                    |                        |                        |
|               | 15          | <u> </u>                                        | <u>.                                    </u> |                      |              | <u>,                                      </u> |               | /                      | <u>'</u>    | 1                    |                        | <b></b> :              |                        |
|               | _           |                                                 |                                              |                      |              |                                                |               |                        |             | 1                    |                        |                        |                        |
|               |             |                                                 |                                              |                      |              |                                                |               |                        |             | 1                    |                        |                        |                        |
|               | -           |                                                 |                                              |                      |              |                                                | /             |                        |             | 1                    |                        |                        |                        |
|               |             |                                                 |                                              |                      |              | / '                                            | M             |                        |             | -                    |                        |                        |                        |
|               |             |                                                 |                                              |                      | /            |                                                |               |                        |             | -                    |                        |                        |                        |
|               |             |                                                 | <br>                                         |                      |              |                                                |               |                        |             | -                    | İ                      |                        |                        |
|               | -           |                                                 |                                              |                      | <b>i</b>     |                                                |               |                        |             | -                    |                        | <br>                   |                        |
|               |             | <u> </u>                                        |                                              | <u>i</u>             | <u> </u>     |                                                |               |                        |             | <u>l</u>             | <br>!                  |                        | <u>J</u>               |
|               | 4.0         |                                                 |                                              |                      |              |                                                |               |                        |             |                      | ,                      |                        | W                      |
|               |             | MAC<br>511 Congres                              | TEC                                          |                      |              |                                                |               |                        |             | DIL BO               |                        | rog /                  | \gu                    |
|               |             | Portland, Mi                                    |                                              |                      |              | ī                                              | 1YSDE         | C QUALITY AS           | SURANCE     | PROGE                | AM P                   | LAN                    | У                      |

### Please TAKE THIS for your PROJECT FILE!

This helps document measurement quality and manage risks.

CELEBRATION CALIBRATION RECORDS 1993 DATE: 05-19-2010 (07)15 PROJECT: NUIA - direct flow event PROJECT NUMBER: 36/2/92/27 CALIBRATED BY: BATS-MULTI-PARAMETER WATER QUALITY MONINTORING SYSTEM: Horiba-U10 MODEL: Horiba-U22 UNIT ID NUMBER: M015-_ M014-Conductivity DO Ha Temperature Units mS/cm mg/L * deg. C CONCENTRATION 4.004.49 RESULTS 10% of +/- 10% of ACCEPTABLE CRITERIA +/- 10% of standard +/- 2.0 deg. C standard standard Auto Calibration Fluids: Auto Cal Solution Standard Source: Lot Number: Expiration Date: TURBIDITY METER TYPE: MODEL: Lamotte 2020 HACH2100P UNIT ID NUMBER: M024-STANDARD VALUE 800 NTU (high) < 0.01 NTU (low) METER VALUE ∴ NTU NTU ACCEPTABLE CRITERIA within 0.3 NTU of standard +/- 10% of standard PHOTO IONIZATION DEVICE: thermo 586B MODEL: Minj RAE 2000 MOOI- MIDER ! UNIT ID NUMBER: CALIBRATION GAS LOT NUMBER: 010379 BRULINON ZONT AIR Span Gas BACKGROUND 0 ppmv 100 ppmv METER VALUE /05-> ppmv ppm٧ Zo. | ACCEPTABLE CRITERIA within 5 ppmy of 0 +/- 10% of standard O2-LEL MODEL: V-REA UNIT ID NUMBER: M012-CALIBRATION GAS LOT NUMBER: GAS USED METHANI OXYGEN ĆO. H2S CONCENTRATION 50% 20.90% 25 ppm 50 ppm RESULTS

### APPENDIX E

### DATA USABILITY SUMMARY REPORTS AND ANALYTICAL DATA

### DATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

### 1.0 INTRODUCTION

Thirty-four air samples were collected at the New Cassel Industrial Area in Westbury, New York in February 2010 and submitted for off-site laboratory analysis. Samples were analyzed by Centek Laboratories located in Syracuse, New York. Results were reported in the following Sample Delivery Groups (SDGs): C1002059 and C1002060.

A listing of samples included in this Data Usability Summary Report is presented in Table 1. A summary of the analytical results is presented in Table 2. Samples were analyzed by the following method:

• Volatile organic compounds (VOCs) by USEPA Method TO-15

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit

J = concentration is estimated

UJ = target analyte is not detected at the reported detection limit and is estimated

EJ = concentration is above the calibration range and is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

### 2.0 VOLATILE ORGANIC COMPOUNDS (VOCS)

VOC - Initial and Continuing Calibration

#### SDG C1002059

For the continuing calibration (analyzed February 28, 2010) associated with a subset of samples, the percent difference between the initial calibration average relative response factor (RRF) and the continuing calibration RRF was greater than 30 for benzyl chloride (-46). Benzyl chloride

was not detected in the associated samples, and quantitation limits were qualified as estimated (UJ) in samples 130043B-IA-01, 130043B-IA-02, and 130043A-SS-01.

### SDG C1002060

For the continuing calibration (analyzed March 1, 2010) associated with all samples, the percent difference between the initial calibration average relative response factor (RRF) and the continuing calibration RRF was greater than 30 for benzyl chloride (-59). Benzyl chloride was not detected in the associated samples, and quantitation limits were qualified as estimated (UJ) in all samples of SDG C1002060.

### **VOC - Surrogates**

### **SDG C1002059**

Percent recovery for the surrogate bromofluorobenzene (136) in sample 130043F-IA-02 was above the control limits of 70-130 percent, indicating a potential high bias. Positive detections of all target compounds reported in sample 130043F-IA-02 were qualified as estimated (J) and may represent potential high biases.

### **VOC - Internal Standards**

### SDG C1002059

One or more internal standard areas were outside control limits in the initial undiluted analyses and/or subsequent diluted analyses of the following samples:

| 130043A-IA-01 | 130043F-IA-02  |
|---------------|----------------|
| 130043A-IA-02 | 130043V-IA-01  |
| 130043B-IA-01 | 130043V-22-02D |
| 130043B-IA-02 | 130043V-IA-02  |
| 130043F-IA-01 | 130043A-SS-01  |

Positive and non-detected results associated with these internal standards were qualified as estimated (J/UJ).

#### SDG C1002060

One or more internal standard areas were outside control limits in the initial undiluted analyses and/or subsequent diluted analyses of the following samples:

| 130043B-SS-02 | 130043K-SS-03 |
|---------------|---------------|
| 130043B-SS-03 | 130043N-SS-01 |
| 130043F-SS-02 | 130043N-SS-02 |
| 130043K-SS-01 | 130043V-SS-02 |

Positive and non-detected results associated with these internal standards were qualified as estimated (J/UJ).

### VOC – Laboratory Control Samples

#### SDG C1002 059

Percent recoveries for bromodichloromethane (133) and carbon tetrachloride (142) were above the LCS control limits of 70-130 percent in the LCS (analyzed February 27, 2010). Positive detections of bromodichloromethane and carbon tetrachloride in associated samples were qualified as estimated (J).

Percent recoveries for 1,3,5-trimethylbenzene (65) and tetrachloroethene (201) were outside the control limits in the LCS (analyzed February 28, 2010). In addition, the relative percent difference (RPD) between LCS and LCS duplicate recoveries for tetrachloroethene (49) was above the control limit of 30. Positive and non-detected results for 1,3,5-trimethylbenzene and tetrachloroethene were qualified as estimated (J/UJ) in associated samples.

### SDG C1002060

Percent recovery for tetrachloroethene (201) was above the control limits in the LCS (analyzed February 28, 2010) associated with sample 130043F-SS-02. In addition, the relative percent difference (RPD) between LCS and LCS duplicate recoveries for tetrachloroethene (49) was above the control limit of 30. The positive detection of tetrachloroethene in associated sample 130043F-SS-02 was qualified as estimated (J).

Percent recoveries of 1,2,4-trimethylbenzene (65), 1,3,5-trimethylbenzene (68), 2-propanol (60), methyl tert-butyl ether (46), tetrahydrofuran (62), and vinyl acetate (63) were below the control limits in the LCS (analyzed March 1, 2010). Positive and non-detected results for these analytes were qualified as estimated (J/UJ) in associated samples.

### VOC – Field Duplicates

A single field duplicate was collected from soil vapor location 130043V-SS-02. As discussed below, relatively large differences were observed between the original sample and the field duplicate indicating that low precision of measurement may have been obtained for the soil vapor samples. A detailed review of laboratory data and field collection records identified no sample identification or data reporting errors. The canister pressure for both samples had gone to <1 "Hg at the end of sample collection. This may have impacted the results reported from these canisters. Based on professional judgment, only results for the original sample 130043V-SS-02 and the associated field duplicate were qualified. However, the data user should consider all soil vapor results as potentially estimated due to uncertainties regarding sampling and/or analytical precision.

### SDG C1002059 and C1002060

Relative percent differences (RPDs) between field duplicate results for sample 130043V-SS-02 (SDG C1002060) and field duplicate 130043V-SS-02D (SDG C1002059) were above the limit of 100 for a subset of target analytes. Duplicate pair results that are above the RPD limit and validation qualification actions are summarized below:

| Analyte               | Sample Conc<br>(ug/m3) | Field Dup Conc<br>(ug/m3) | RPD | Qualifler |
|-----------------------|------------------------|---------------------------|-----|-----------|
| 1,1,1-Trichforoethane | 290                    | 3800                      | 172 | J         |
| 1,1-Dichloroethanc    | 8.2                    | 79                        | 162 | .1        |
| 1,1-Dichloroethene    | 25                     | 780                       | 138 | J         |
| 1,4-Dioxane           | ND                     | 27                        | 184 | 1/01      |
| 2-Propanol            | ND                     | 21                        | 193 | J/UJ      |
| 4-Methyl-2-pentanone  | 31                     | 1000                      | 188 | j J       |
| Heptane               | 9.7                    | 3.I                       | 103 | J         |
| Trichloroethene       | 5.8                    | 43                        | 153 | J         |
| o-Xylene              | 80                     | 360                       | 127 | J         |

ND = Non-detected

### VOC - Sample Quantitation

### SDG C1002059 and C1002060

The laboratory qualified a subset of results with "E" to indicate the reported concentrations were above the calibration range. During data validation, 'E' qualifiers were changed to 'EJ' qualifiers. to indicate the results are above the calibration range and are considered estimated.

### VOC - Sample Reporting

Two laboratory control sample summaries were missing from the data package originally submitted to MACTEC. The laboratory was contacted and the missing LCS summaries were received on April 21, 2010.

#### Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

"Technical New York State Department of Environmental Conservation (NYSDEC), 2002. Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

USEPA Region 2, 2006. "Validating Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15"; SOP # HW-31, Revision 4, Hazardous Waste Support Branch; October 2006.

Data Validator: Julie Ricardi

CR for Julie Recard. Date: 04/22/2010

Reviewed by Chris Ricardi, NRCC-EAC

Cho Riadi

Quality Assurance Officer

Date: 7/26/2010

### TABLE 1 – SAMPLE SUMMARY DATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|          |       |           |                 |             | Class    | VOC      |
|----------|-------|-----------|-----------------|-------------|----------|----------|
|          |       |           |                 |             | Method   | TO-15    |
|          |       |           |                 |             | Fraction | τ -      |
| SDG      | Media | Location  | Sample ID       | Sample Date | QC Code  |          |
| C1002059 | Air   | A-AA-1    | 130043-AA-01    | 1 2/15/2010 | FS       | <u> </u> |
| C1002059 | Air   | A-IA-01   | 130043A-IA-01   | 2/15/2010   | FS       | x        |
| C1002059 | Air   | A-[A-02   | 130043A-IA-02   | 2/15/2010   | F5       | x        |
| C1002059 | Air   | B-1A-01   | 130043B-[A-0]   | 2/16/2010   | FS       | x        |
| C1002059 | Air   | B-IA-02   | . 130043B-IA-02 | 2/16/2010   | FŜ       | X        |
| C1002059 | Air   | F-1A-01   | 130043F-IA-01   | 2/16/2010   | FS       | Х        |
| C1002059 | Air   | F-JA-02   | 130043F-1A-02   | 2/16/2010   | FS       | 1 X      |
| C1002059 | Air   | K-IA-01   | 130043K-IA-01   | 2/16/2010   | FS       | x        |
| C1002059 | Air   | K-1A-02   | 130043K-IA-02   | 2/16/2010   | F5       | Х        |
| C1002059 | Air   | N-AA-2    | [30043-AA-02    | 2/16/2010   | FS       | Х        |
| C1002059 | Air   | N-IA-01   | 130043N-IA-01   | 2/16/2010   | FS       | X        |
| C1002059 | . Air | N-IA-02   | 130043N-IA-02   | 2/16/2010   | F5       | x        |
| C1002059 | Air   | V-AA-1    | 130043V-AA-01   | 2/18/2010   | FS       | х        |
| C1002059 | Air   | V-IA-01   | 130043V-JA-01   | 2/18/2010   | F\$      | X        |
| C1002059 | Air   | V-1A-02   | 130043V-IA-02   | 2/18/2010   | FS       | X        |
| C1002059 | Air   | V-SS-02   | 130043V-SS-02D  | 2/18/2010   | FD       | ×        |
| C1002059 | SV    | A-SS-01   | 130043A-SS-01   | 2/15/2010   | FS       | x        |
| C1002060 | SV    | A-SS-02   | 130043A-SS-02   | 2/15/2010   | FS       | _        |
| C1002060 | sv    | A-SS-03   | 130043A-SS-03   | 2/15/2010   | FS       | X        |
| C1002060 | sv    | B-SS-01   | 130043B-SS-01   | 2/16/2010   | FS       | x        |
| C1002060 | sv    | B-SS-02   | 130043B-SS-02   | 2/16/2010   | FS       | x        |
| C1002060 | sv    | B-SS-03   | 130043B-SS-03   | 2/16/2010   | FS       | X        |
| C1002060 | sv    | F-SS-01   | 130043F-SS-01   | 2/16/2010   | FS       | x        |
| C1002060 | SV    | F-SS-02   | 130043F-SS-02   | 2/16/2010   | FS       | X        |
| C1002060 | 5V    | F-55-03   | 130043F-SS-03   | 2/16/2010   | FS       | X        |
| C1002060 | SV    | K-SS-01   | 130043K-SS-01   | 2/16/2010   | FS       | X        |
| C1002060 | SV    | K-SS-02   | 130043K-SS-02   | 2/16/2010   | F\$      | X        |
| C1002060 | SV    | K-SS-03   | 130043K-SS-03   | 2/16/2010   | FS       | X        |
| C1002060 | sv    | N-SS-01   | 130043N-SS-01   | 2/16/2010   | FS       | Т х      |
| C1002060 | sv    | N-SS-02   | 130043N-SS-02   | 2/16/2010   | FS       | X        |
| C1002060 | SV    | N-SS-03   | 130043N-SS-03   | 2/16/2010   | FS       | X        |
| C1002060 | sv    | V-\$\$-0! | [30043V-SS-0]   | 2/18/2010   | FS       | Х        |
| C1002060 | SV    | V-SS-02   | 130043V-SS-02   | 2/18/2010   | FS       | Х        |
| C1002060 | sv    | V-SS-03   | 130043V-SS-03   | 2/18/2010   | F\$      | i X      |

Notes:

QC Code: FS = Field Sample Media: SV = Soil Vapor

Sample ID: IA = Indoor Air, AA = Ambient Air, SS = Sub-slab

Fraction:  $\Upsilon = Total$ 

### TABLE 2-SUMMARY OF ANALYTICAL RESULTS OATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|             |                                                             | gle Deliver Group        | C1802059         | C1022059 J             | C1002059         | C100 <u>0</u> 259  | C1802059         | C1002859             | C1302059                 | C100G059         |
|-------------|-------------------------------------------------------------|--------------------------|------------------|------------------------|------------------|--------------------|------------------|----------------------|--------------------------|------------------|
|             |                                                             |                          | A-AA-I           | N-AA-2                 | V-AA-I           | A-IA-01            | A-14-02          | B-1A-31              |                          | P-(A-0).         |
| <b> </b>    | <del></del>                                                 | Lecation:                | 2/15/2010        | 2/16/2010              | 2938/2010        | 2/15/2010          | 2/15/2010        | 8-1A-21<br>2/16/2310 | 0-14-02<br>246/2010      | 2962019          |
| <del></del> |                                                             | Sample Date<br>Sample ID | 1909-AA-01       | 130045-4A-DZ           | 130043V-AA-01    | 130043A-IA-01      | 170043A-IA-02    | 130043B4A-01         | 1300438-1A-92            | 130043F-tA-01    |
| <u> </u>    | <del></del>                                                 | OC Code                  | ES.              | 13(A)=3-3(A)=32<br>F\$ | FS               | FS                 | 75               | F5                   | FS FS                    | £280437-184411   |
| 4 1         | Развит Хате                                                 | Units (C.Cone            | Result Qualifier | Result Qualifier       | Result Qualifier | Rest Ocalifier     | Result Outlifier |                      | Result Qualifier         |                  |
| 1045        | I.LFriedemonane                                             | <del></del>              | 3.83 (           | 683 y 4 mm             | 0.83 U           | 0.83 (1)           | 10 68.0          | 0.83 J               |                          | 0.83 U           |
| 1015        | 1.12.2-Tenachanethare                                       | <u>12m3</u>              | 111              | °°°   j                | 1 U              | t 1);              | 0.83 C1          | 10                   | 0. <b>83 U</b><br>11 G I |                  |
| TG45        |                                                             | Enge                     | 1.217            | 127                    | 1.20             | 1.2 U              | 1.8              | 12 U                 |                          | 1 UJ<br>1.2 U    |
| 1015        | 1,12-Trichlero-1,22-TriEucroellanz 1,12-Trichlercellanc     | டிரு<br>உர்து            | 0.83-15          | 089 0                  | 0.83 U           | 083111             | 0.83 U.T         | 382 U                | 1.2 U<br>0.83 U          | 6.83 U           |
| TOIS        | 1,1-Diddagerhane                                            |                          | 8,52 t;          | 0.63 U                 | 0.62 U           | ១៩३ ប្រ            | 6.62(U           | 052 U                | 0.621L                   | 0.83 L<br>0.62 L |
| -7015 I     | 1,1-Diddingerhens                                           | Errigar                  | 8.5/L            | 06 B                   | 0.6/U            | 06/U               | 6.62.U           | 06.0                 | 0.021                    | 0.65 U           |
|             | 1,24-Truthorbenzens                                         | ug/m3                    | 1.10             | 110                    |                  | 1.11111            | 1.10             | 1.10                 | 1.1 6.1                  | 1.11.13          |
|             |                                                             | ug'n3                    |                  | 9.75 U                 | 1.1U 1           | 19.3               | 7.10.            |                      | 1.1 61                   |                  |
| 10:3        | 1,2,4 Transler/Sensere<br>1,2-Distance/tase                 | ug/m3                    | 120              | 1.2 0                  |                  | 12.01              | 1,2 U.T          | 08 S                 | 1.31.7                   | 7,4 )<br>1,2 UJ  |
| TO:5        |                                                             | मह्मा                    | 1.1 U            | 1.2 U                  | 1.20             | 1.11               | LLIC             | 1.10                 |                          | 1.110            |
|             | 1,2-Diridero-1,12,2-terrefluorentezas<br>1,2-Diriderotenzas | ugim3                    | 0.52 U           | 9,92 ()                | 0.92(3)          | 0.92 UJ            | 0.92 (0)         |                      | 1.1 L<br>0.92 131        | 0.92 1.75        |
| TO:5        | 1,2-Diddenochane                                            | Ent'gu                   | 0.62 ()          | 9.92 U                 | 0.62 U           | 0.92 (.)           | 062 U            | 0.52 UJ<br>0.62 U    | 0.62 ()                  | 0.62; U          |
| 70.3        | 1,2-Did/foropropanz                                         | <del></del>              | €.7 €            | 9.7 U                  | 0.7 U            | 0.7 CT             | 07 U             | 0.02 0               | 0.740                    | 0.07,U           |
| TQ15        | 1,3.5.11 methyl tenzere                                     | ் நூது                   | 1.2              | 9.75 E                 | 0.7 J<br>075 U   | 4.6 )              | 7.3 3            | 8.75 UE              | 0.51                     | 1.61             |
| 1015        | 13.301 Early Repaire                                        | மத்தை                    | 0,34 U           | 0.34 E                 | 0.34 1/          | 0.3 <b>a</b> (     | 234 0            | 6,75 CC<br>6,34 U    | (34I)                    | 0.34E            |
| 7015        | 1.3-Diddendemzee                                            | ugin3                    | 0.92(0           | 0.92 L                 | 0.92 U           | 0.92 (3)           | 392 UI           | 6.93(O)              | 092111                   | 0.32(0)          |
|             | I.4-Dichicrobenzese                                         |                          | 0.32/0           | 0.92 U                 | 09210            | 0.92(1)            | 392 UJ           | 6.92.07              | 092 01                   | 0.92(4)          |
|             | I.4-Dioxane                                                 | 68/83                    | 1111             | 1.10                   | 170              | 1.1 ())            | 1101             | LID                  | 110                      | 1.1C             |
| TOIS        | 2-Bulanone                                                  | Entage Control           | 05 11            | 6.72 3                 | 11 1             | 0.9 ()             | 32               | 1.5.                 | 0910                     | 8.3              |
| TOIS        | 2-Heazone                                                   | tgtm3                    | 12 0             | 1.20                   | 120              | 1.2 ₁ U | 1.2 UJ           | 1.2,00               | 1210                     | 130              |
| 7013        | 2-Processor                                                 | egim3                    | 0.37 U           | 7.50                   | 62 EJ            | 1.20%              | 937B             | 383                  | 130                      | 1200             |
|             | 4-Ein listene                                               | ug/m3<br>ug/m3           | 1.3              | 6.75·U                 | 0.75 U           | 7.8 1              | 13.1             | 0.51                 | 110                      | 3.41             |
|             | d-Melliv, 2-certanane                                       | ug/m3                    | 126              | 1.2 U                  | 12 U             | 3.411              | 320              | 1.240                | 1 1 1 1 1 1              | 21               |
|             | Acetors                                                     | mf.342                   | 47               | 12 EJ                  | 170              | 39                 | 49               | 301                  | 390                      | - 14 EJ          |
|             | Ally, clideride                                             | ug/m3                    | 348 !!           | 0.48 U                 | 0.48 U           | 0.48 (             | 0 18 T           | 0.48 U               | 0.48 U                   | 0.48 Li          |
|             | Senze re                                                    | Eniogy                   | 1)               | 2.75                   | 0.68             | 8.41               | 111              | 3.3                  | 2.1                      | 14               |
| TOIS        | Bonzyl shijeride                                            | ug/m3                    | 3 SS (I          | 0.88 U                 | 0.62 []          | 088 (1)            | 0.88 U.I         | 0.88 U               | 0.88 UT                  | 0.88101          |
| TOIS        | Bicmedia: laromethane                                       | is unit                  | 16               | 10                     | 1/1              | :/0/               | 3.77             | 1/3                  | 1/U                      | 1/11             |
| TOIS        | Bremolorm                                                   | - Fund                   | 1.6 U            | 160                    | - 150            | 7 E (i)            | 1.5 U            | 1600                 | 1000                     | 1.5 (1)          |
|             | Brancons, 1206                                              | - 2.m2<br>- 2.m3         | 0 39 L           | 0.55 (3                | n.59 U           | 0.15 (i)           | 0.59 U           | 039 (3               | 0.59 U                   | 0.59 U           |
| TOIS        | Carton dipulitike                                           |                          | 9.41 7           | 047 0                  | 0.47 (7          | 047 U              | 0.47 L           | 047 U                | 0.4711 1                 | 0,4710           |
| reis        | Curbon Checklande                                           | -20m2                    | 0.58 J           | 0.53 [                 | 0.58 J           | 0.45 [             | 0.51 )           | 0.26 ()              | 0 26 11                  | 0.5113           |
| TCIS        | Chizobrazens                                                | 120ir3                   | 2.7 (            | 07/3                   | 0.710            | 0.7 (1)            | 0.7 t.1          | 0.7 (3)              | 3.7111                   | 0.3111<br>       |
| TC15        | Chixed brancine base                                        | ugim]                    | 13 0             | 137                    | 1.310            | 13 (1)             | 1.3 C1           | 3.3 UJ               | 1301                     | 13111            |
| TOIS        | Chlaretha x                                                 | क्षांची                  | 0.4 [            | 04 U                   | 0.41)            | 0.4 11             | 9.4 C            | 0.4 ()               | 240                      | 046              |
| TOIS        | Chizatem                                                    | மன்பி                    | 1.2              | 074U                   | 0.7410           | 1.1                | 22               | 0.7410               | 0.74 U                   | 9.74 U           |
| TOIS        | Chicomet and                                                | ng-al                    | 0.69             | 178                    | 0.6              | 0.99               | 1.5              | 073                  | 0.59                     | 0.85             |
| TOIS        | Cis-1.2-Dichkcogibere                                       | ngim)                    | 0.6 []           | 06U                    | 0.61)            | 1.6                | 9.5 U            | 0.6 U                | 9.5F                     | 0.511.           |
| -           | zis-L3-Dichlanearooene                                      | ug/m] i                  | 0.69             | 369 U                  | 0.691)           | ० इंग्रेस          | 9.69 U.S         | 0.69(J               | 0.59(U                   | 0.6911.          |
|             | Cyclohetrane                                                | महत्त्वर ।               | 12               | 3.52 U                 | 8.52 U           | 14                 | 18               | 05213                | 3.3                      | 0.52 U           |
|             | Dichlaradiffueromettane                                     | uoin?                    | 72               | 23                     | 2.5              | 24                 | 2.3              | 3/2/3                |                          | 7.3              |
|             | Ethyl sotisk                                                | upan)                    | 1111             | 392 U                  | C 92 U           | 0.92 11            | 0.92 U           |                      | 14                       | 8.921U           |
|             | Ethi berzene                                                | 118,14)                  | 111              | 266D                   | G.4911           | 12.1               | 11:1             | 130030               | 2300 FJ                  | 7.311            |
| =           | Недис                                                       | र विकास र<br>विकास       | 1.7              | 362 0                  | C.62 U           | 13                 | 27.              | 12                   | 2.5                      | 1.7              |
|             | Heraritimotulacions                                         | <u>। प्रकृतिक</u>        | 7.5<br>1.6 L     | 160                    | 1.6U             | 16ហ                | 1.6(1)           | 16 01                | 1.6101                   | Latu             |
|             | Hevan:                                                      | i ugas                   | 6.6              | 3 54 E                 | 0.34 U           | 23                 | 29;              | 23                   | 4.9                      | 0.54(1)          |
|             | foredance                                                   | นตุระ                    | 0.62)            | 2.71 0                 | 0.71U            | 16                 | 11!              | 11                   | Z.21                     | 0.7110           |
|             | Methyl Teriburyl Ether                                      | ugtas)                   | 0.55 U           | 3.55 U                 | 0.55 U           | 3 55 11            | 0.55 U           | 0.55 U               | 0.5SiU                   | 0.55 U           |
|             | Mathy kne chlorids                                          | กลิงเก                   | 1.3              | 0.53 U                 | 1.3              | 3.5                | 17               | 0.42                 | C.42L1                   | 0.4211           |
| ,.2423      | ATTACK PROPERTY.                                            | 1 155 3t2 1              | 1.35             | 9.25 0                 | 1.7              |                    | <u> </u>         | V.444                | W-M2\$1                  | N.47[1           |

### TABLE 2 - SUMMARY OF ANALYTICAL RESULTS DATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPUNG NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

| •        |                            | Sample Delivery Group | CHOp           | 259       | £1040   | 20.59       | C1002039         | C100           | 2015      | C1903059          | C19326   | 059         | C 1902  | 659        | Ck000          | 2059                                          |
|----------|----------------------------|-----------------------|----------------|-----------|---------|-------------|------------------|----------------|-----------|-------------------|----------|-------------|---------|------------|----------------|-----------------------------------------------|
|          |                            | Localide              | A-16.4         | (         | NA      | A- <i>i</i> | V-8-A-1          | A-A            | ાં ૄ      | A-IA-02           | 9-IA-    | OI (        | B-14-   | 02         | <b>F-</b> 1,4. | -J1                                           |
| •        |                            | Sampk Date            | 2/15/20        | 360       | 2/16/   | 2010        | 2/18/7619        | 2/15/2         | CID       | 21.5/2010         | 2/\$6/20 | 119         | 2/16/2  | 810        | 2152           | <i>I</i> C10                                  |
|          | <u></u>                    | Sample #E+            | 30843-4        | 13-A4     | 13C943- | AA-02       | 130041Y-AA-01    | JOM3A          | 10-44-    | 19000A4A40        | (300438- | la-Di       | 130043B | 17-02      | 130043E        | -IA-OI                                        |
|          | <del>-</del> -             | QC Code               | FS             |           | F:      | <b>3</b>    | 12               | F              | : [       | FS _              |          |             | FS      |            | 73             | \$                                            |
| Analysis | Расэн Хаше                 | Units                 | Resit          | Qualifie: | Result  | Qualifica   | Result Qualifier | Result         | Qualitier | Result Qualifier  | Result 1 | Qualifier   | Result  | Qualifier  | 25±1           | Qualifica                                     |
| TO:5     | Propplete                  | મિલંદ્રા              | 0.26           | J         | 2.2€    | U           | 8.26 U           | 0.26           | Ű.        | 6.25 U            | 0.25 1   | Ī           | 0.26    | U          | 0.26           | Ü                                             |
| TO15     | Styrene                    | ழுள்ளி                | 1.2            |           | 0.63    | U .         | 0.65 U           | 0.65           | U j       | 6.55 UT           | 0.65     | ) <b>j</b>  | 0.65    | H)         | 0.65           | Œ                                             |
| TO15     | Teleschioscettene          | ப <u>ஜ</u> ர்வ€்      | 4.6            |           | 1.15    |             | 4.1              | 74             | )         | 225 /             | 1.943    |             |         | <b>-</b> [ | 1.7            | J                                             |
| TOIS     | . Felrahyecofuran          | Unign                 | 9.45           | <b>3</b>  | 345     | ti i        | 0.45 U           | C.45           | U         | 0.45 U            | 0.45     | ,           | 0.45    | U          | 0,45           | U                                             |
| TOL      | (Takené                    | ug'=d                 | 37             |           | 2.3     |             | 3.2              | 41             |           | 47                | 600      | j           | 1390    | EI         | 7.2            | ()                                            |
| TOD:     | trans-12-Birklereethene    | ) W. Gu               | 3. <u>49</u> 3 |           | 9.క     | U .         | <b>08</b> 0      | £.6            | U         | 6.6(U             | C.6}I    | ,           | 0.6     | r ]        | 96             | U                                             |
| TOIS     | prans-1, I-Bichleropropens | (கூட்ச)               | 3.69[          | y I       | 3.69    | IJ          | 0.69[U           | 0.69           | w l       | 9 <b>69</b> f (C) | 0.69 t   | ) [         | C.69    | t 3        | 0.69           | <u>u                                     </u> |
| TO!5     | Tochiocaethene             | up'm)                 | 21             |           | Ø.22    | U           | 0.22 <b>(</b> U  | 3.6            | ,         | 1.6])             | 37       |             | 28      |            | 3.2            |                                               |
| TOI:     | Trichlocofluoremethane     | ar, uri               | I.1            |           |         |             | 1.2              | I <u>. 1</u> ] | 1         | 1                 | 0,97     | _ ]         | C.97    |            | 12             |                                               |
| 1015     | Whey, acerait              | ug*m)                 | 3.54 [         |           | 0,54    | i i         | 0.54 U           | 0.54           | IJ J      | 0.54%             | 0.54)(   | 7           | €.5€    | L          | 0.54           | J                                             |
| TOIS     | Viny bramide               | cmgu .                | 0.57           | Ĵ .       | 0.67    | Ľ I         | 0.67]U           | 0.60           | J         | 0.67 U            | 0.674    | )           | 0.67    | U .        | 9.63           | J                                             |
| TO15     | Viny, chipride             | ug*m5                 | 0.11           | IJ.       | Ċ.7     | Ü           | al U             | ર દ            |           | AHQ               | 0.1 it   | ;           | 8.1     | u j        | 01             | ij.                                           |
| TO15     | Nykm, m/p                  | ugino                 | [#]            |           | 1.5     | [           | 121              | ]€             | 1         | 35 [              | 4800.E   | j 1         | 6900    | E.         | 3.5            | i                                             |
| .OH5     | Хуїєне, в                  | ug*m³                 | 6.3            |           | C.56    | Ľ           | 0.66 U           | 13             |           | 10 F              | 436      | $\neg \neg$ | 900     |            | 2.6            | F                                             |

NOTES:

QC Code IIS = Field Sample, FB = Field Duplicate

Qualification C = Non-detected, W = Non-detected extension, I = Entire and,

El - Estimated, occentration is above the linear range of collipsation.

Cialis inglad = Mitrograms per cubic meter

### TABLE 2 - SUMMARY OF ANALYTICAL RESULTS OATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|              | Co amis                                 | e Delivery Group    | €1302039            | CICOZUSP                                 | 65000013         | C1002859         | Č1302659            | C1002359                  | C1002959         | C1002059         |
|--------------|-----------------------------------------|---------------------|---------------------|------------------------------------------|------------------|------------------|---------------------|---------------------------|------------------|------------------|
|              |                                         | Location            | F-Dy-02             | K-1A-01                                  | K-LA-02          | H-IA-01          | N-(A-C2             | V-JA-81                   | V-58-02          | ¥4A-02           |
|              |                                         | Samule Date         | 2 16 2019           | 2/15/2010                                | 2/16/2010        | 2/15/2010        | 2/16-2018           | 2/15/2016                 | 24(8/2010        | 2/18/2010        |
|              | <del></del>                             | Sample (D)          |                     | [50343K-2A-01                            | (30045K-1A-02    | 1300M3N-(A-01    | 1300±3N-LA-02       | [50)M3V-JA-01             | 130043V-SS-02D   | 130043V-(A-02    |
|              | <del></del>                             | OC €ade             |                     | FS                                       | FS               | FS               | F\$                 | FS                        | FD               | 83               |
| Analesis     | Param Name                              | Units               | Res 2 Ocalifier     | Result Qualifiet                         | Result Oualifier |                  | Result Ozelifer     | Regil Cualdice            | Result Oualifier | Result Cualifier |
|              | 1.1.1-Trichlatestrans                   | ug'm3               | 033(1)              | 6.83 U                                   | 0.83 U           | 1.2              | 12                  | 4.2.)                     | 290 [            | 471              |
| TOIS         | 1.1.2.2-Telerotion with and             | កស្នួយក្            | III)                | 111                                      | 1 1              | 119              | III.                | ı (U)                     | 1 1/1/1          | 1 (1)            |
| TOIS         | 1.1,2-Triching-1.2.2-Trifluoroethane    | เหลูกเรื            | 120                 | 1.2 U                                    | 12 Ü             | L2 U             | 124                 | 1.2(0                     | 0.91             | 1.2 U            |
| TOIS         | 1.1.2-Trickforoectane                   | tin'au              | ं इत्रे हो।         | €,83,0                                   | 6.83 U           | 0.83 🙄           | 0.83 U              | ្នាស                      | 0.83 UJ          | 0.81 U)          |
| TOIS         | L.1-Dichierpethase                      | ் மூற்ற             | 762 ti              | 6.62;G                                   | Ø.62 U           | 0623             | 0 52 U              | 1.5                       | 82)              | 1.6              |
| Tois         | 1.1 - Drefter gethere                   | ugint3              | 999                 | caju                                     | ១១ ប             | 0.6] J           | 0.6[U               | 06]1                      | 25 J             | 6.6 U            |
| TO15         | 2,4-Trichlerchersene                    | Emigy               | 13 01               | L. L. L. L. L. L. L. L. L. L. L. L. L. L | 1.1 UF           | 1. 10            | 1.1 U               | 110                       | LI UF            | 1.1 (.)          |
| TO 15        | 12.4-Translybenzese                     | 1424114.3           | 230                 | E.3                                      | 1.8              |                  | 6.75 U              | 11                        | 2.7 1            | 1.3 J            |
| TOIS         | 1,2-Dixpmethax                          | Lang                | 1.2 (5)             | 1.2 Li                                   | 1.2 U            | 120              | 1.2 U               | 1.2 UJ                    | 1.2 UI           | 1.3 LT           |
| TGIS         | 1,3-Dichlaro-1.1.2.2-tettalliconsellune | Tagén d             | 1.3 6               | 1.6 4                                    | 1.i U            | 1.1 🖰            | 1.1 U               | IIU                       | i i i            | 1.1 U            |
| 00:5         | L2-Dichlarchengene                      | <b>u∌</b> 1_3       | Ø.92 €1             | 385 A                                    | 6.92 U           | 6.92 U           | 0.92(1)             | 3.92 UJ                   | 0.92 UF          | 0.92 LJ          |
| TO15         | 1,2-Dichloroefficine                    | ug/arl              | 8.62 L              | ን ፋር ሀ                                   | 6.62LU           | 8.52 U           | 0.62[U              | ગુસ્કર 🗓                  | 0.62 U           | 0.62 U           |
| TQ15         | 1,2-Dichloropropane                     | (ខាន់ខ្លាប          | 0.7 1.0             | 07 lj                                    | n.7U             | 37U              | 0.7 U               | 0.7 01                    | 0.7 LY           | 0.7 LT           |
| O15          | LE,5-Entrethiske teene                  | egára!              | 1.2 1               | 2.75 U                                   | 0,551)           | 8.75 U           | 0.75 ₁ C | 0.75 1)1                  | 1.3.1            | 0.75 UI          |
| 7015         | 1.1 Bulations                           | nem;                | 6.34 U              | 3.34 L                                   | 634U             | 9.34 U           | 034 <b>U</b>        | 0.34 U                    | <u>0</u> 34(U    | 0.34 U           |
| :015         | 1,5 Dichlomber zene                     | : 200 gu            | 0.92 (1)            | 3.92 U                                   | 0,9210           | 0.92 (3          | 0.92 0              | 0.93 (.)                  | 0.92(U)          | 0524.0           |
|              | I,4-Dichlorchergene                     | மதும்}              | 0.925(1)            | 0.92 G                                   | 0.9273           | estu-            | 992โป               | 1.811                     | 1.711            | 1.6.1            |
| <del></del>  | 1,4-Diavane                             | ug*513              | . EW                | 116                                      | 117              | LIU              | 1.1 U               | 1.101                     |                  | rica             |
| 7015         | 2-Businger                              | ug*m}               | £.\$ ()             | ±.                                       | 1.3              | 1.6              | 378 [               | 4.9                       | 4.5              | 44               |
| 1015         | 3-Hexagone                              | <u>មន្ត្</u> វិធារិ | 1.2 (1)             | 1.2 (                                    | 1.2 U            | 1.2 U            | 12 6                | L2\U:                     | 1211             | 1.2 (U           |
| 101 <u>2</u> | 2-Properties                            | #8*ff±3             | 0.37 ()             | 58 E2<br>0,75 U                          | 23 EJ<br>03      | 0.75 U           | 3 75 U              | 28 ²<br>0.55:J | 033 UJ           | 0.57 U<br>0.55 J |
| TO:5         | 4-Ettlyhohen: 4-Methyt-2-perhanone      | Emtgu<br>Entgu      | 1.61                | [.2](/                                   | 120              | 0.75 C           | 12 U                | 261                       | 33 2             | 36!              |
| TOIS         | Accione                                 | ugma<br>ugma        | 24 E)               | 29 EJ                                    | 74 EJ            | 14 51            | 12 EJ               | 140                       | 170              | 283              |
| TOIS         | Alld charide                            | n6.ur3              | 048 11              | 0.48:U                                   | 0.48 U           | 0.4873           | 0.48 C              | 0.48 ()                   | €45 L            | 0.48 U           |
| TOIS         | Bemz's                                  | ugun3               | 1.6 ;               | 1.2                                      | 18               | 081              | 9.78                | 1.3 3                     | 151              | 135              |
| TOIS         | lienzyl chlonde                         | ug'in)              | 98/UJ               | 0.88 U                                   | 0.85 U           | 0.82 3           | 8.35 U              | 0.82 UJ                   | 0.88 1/1         | 0.88.00          |
|              | Bromodichlonomediane                    | vg-in3              | 10                  | HU I                                     | 1/4              | 173              | il C                | 3 01                      | 1 LH             | II.              |
| 1015         | Semnator                                | ug/m3               | 16 UI               | :60                                      | 1.6 U            | j.6 ij           | 1.6 U               | 1.6 UJ                    | 1.6 U            | L.S C.F          |
| 1015         | Etonomenhane                            | <b>ug-in3</b>       | 9.59 Ü              | 0.59 U                                   | 0.59 U           | 0 % U            | 8.59 €              | 0.59 U                    | 8.59 U           | Ç,5₹ U           |
| TOI5         | Carbon disulfée                         | е <b>с</b> т3       | 363                 | 047 U                                    | 0.47 U           | 0.47 U           | 8,47 (2             | 3,47 U                    | 6.98             | €.47 €           |
| TOIS         | Carioni tetrachionde                    | og/m3               | 9,45 j              | 0512                                     | 0.51 1           | 0.58             | 9.7 (               | 1111                      | 0.95 UI          | Ç.51 J           |
| TCIS         | Chicobenzene                            | ਦਿਸ਼ੀਵੁਰ            | 6.7 U!              | 07U                                      | 0.7 (2           | 9.70             | 0.7 U               | 07 W                      | 0.51 J           | 0.47 1           |
| TC15         | Chicodibicnicnitabane                   | egim)               | 1.3 CF              | 1.3 U                                    | 1,3 U            | ) <u>;</u> U     | L3 C                | 1.3 W                     | 13 UI            | 13 01            |
| TC15         | Chicoctiane                             | egim!               | 0.4[0]              | 044                                      | 0.4 U            | OAU.             | 0.4 C               | 0.4 U                     | J.4.U            | 0.4 U            |
| ICI5         | Chivreform                              | មន្តរការិ           | 8.74 U              | 2.44 U                                   | 0.74 ()          | 9.74 U           | 8.74 C              | 0.74 U                    | 9.74 U           | 6.74 U           |
| ro:s         | Colorine inne                           | ne,wi               | 6.76 )              | J 96                                     | 0.8              | 1                | 8.78                | 1.4                       | 0.31 U           | [.1              |
| TOIS         | Cis-L2-Dichloreethone                   | epini.              | 6.6 U               | 060                                      | E.6 U            | 36 C             | 0.6 C               | 060                       | 0.5 U            | 0.6 U            |
| TOIS         | d's-12-Digitleropropere                 | सक्ष्मान्           | 6.69 <b>C</b> U     | 9.59 U                                   | C.69(U           | 9,69(U           |                     | 3 <i>6</i> 9(U)           | 0.69 (JI         | C.69 CI          |
|              | Cytiolesane                             | ug'mi               | 36 j                | 9.52 U                                   | 0.52 U           | B.52 U           | 0.52 (7             | 3.52 UJ                   | 9.52 U.S         | 0.52 UI          |
| TO15         | Dichlandin cranethers                   | nč,w _?   | 2.2                 | 2.4                                      | 2.3              | 2.1              | 2,3                 | . 3                       | 0.75 U           | 3.2              |
|              | Ethyl stepsie                           | në,w;               | 26 2)               | 9.92 C                                   | 0.92 U           | 0.92 (1          | 0.92[U              | - 35                      | 2.3.             | 3.5              |
|              | Ethyl benzase                           | महोता है            | 3.8.3               | 1.1                                      | 21               | 0.65 (1          | 0.66[U              | #1                        | 68               | 59               |
| 3015         | [leptare                                | មន្ត/កា3            | 3,1 1               | 1.9                                      | 1.2              | 0.52 Lf          | 0.62]U              | 9.2 J                     | 9.7.1            | 8.7              |
|              | licementations                          | us'm>               | .6 9                | 160                                      | 1.6 U            | 1.5 (5           |                     | 1.6 01                    | 1.6.U            | 1.6 0.9          |
| 1035         | : Itesae                                | intanta             | 16 5)               | 0.54 C                                   | 0540             | 0.54 (7          | 0.54 C              | 6.4                       | 10               | 5.4              |
| TO15         | poccine                                 | на, яну<br>1        | 057 (<br>0 55 F)    | 0.71 U                                   | Li               | 0.7110           | 0.71[C              | 0.71 [2]                  | 07110            | 0.21 (7)         |
| TOIS<br>TOIS | Mefnyi Tentenyi Ether Methyiane chlonde | 165,1113<br>11405   | 0.55 (C)<br>1.6 (r) | 0.55 U<br>0.46 J                         | 055[U            | 0.55 U<br>0.53 U | 035 C<br>035 H      | 0.55 U                    | 0.55 U<br>t.6    | 0.55}U<br>1.7    |
| 12013        | 1900-74 tal 5 08/0005                   | <u> 115</u> 11113   | <u></u>             | 0.001                                    | 0.3311           | ( U.254E)        | m25ft               | 15                        | T.0              | <u>/ </u>        |

### TABLE 2 - SUMMARY OF ANALYTICAL RESULTS DATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|              | <del>_</del>             | Staple Belivery Group | EHX           | 2059      | Çisə    | 2059        | C1002059         | C1002359         | C1003059         | CE002003        | C1002059        | C1002059        |
|--------------|--------------------------|-----------------------|---------------|-----------|---------|-------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|
|              | <del>-</del>             | Location              | F-14          | -02       | K-43    | <b>\-</b> @ | K-IA-02          | N-IA-01          | N-2A-02          | ¥-(A-0)         | V-SS-02         | V-IA-02         |
|              |                          | Sample Date           | 2/16/         | 2910      | 2/16/   | 2010        | 2/16/2010        | 2/15/2010        | 2/16/2010        | 218/2010        | 2/18/2019       | 2/19/2010       |
|              |                          | Sample 10             | [39943]       | F-4A-02   | 1300431 | K-[4-2]     | 133043 X-IA-02   | 130013N (A-G)    | 190943N-IA-02    | 150043V-LA-01   | LY0043V-SS-02D  | )30043V-3A-02   |
|              |                          | QC Cad∉               | F             | \$        | F       | 5           | FS               | FS               | Ŧŝ .             | -53             | FD FD           | fS              |
| Analysis     | Param Name               | Umits.                | Result        | Q_alifier | Result  | Qualifica   | Result Qualifier | Result Qualifier | Result Qualifite | Result Qualifie | Resul Qualifier | Result Qualific |
| 1015         | P:apslete                | ugim?                 | 9.26          | 9         | 3 36    | TC ]        | 0.26 U           | 0.26 U           | C.26 U           | 6.26 U          | 0.25 C          | 026 J           |
| TOIS         | Styrane                  | ug/m3                 | ! 3           | -         | 9,48    | [           | 1.4              | Q.65jC           | C65U             | 0.65 U          | 0.65 CF         | <b>₹</b> ₹      |
| TOIS         | I straction retirence    | មន្ ^រ ភារិ | 13            | 5         | 1 7     | 1           | 5.4              | i.6]             |                  | 610             | 1500            | 1600 J          |
| tois         | Terratry Configura       | ug*m3 i               | 3,45          | Ľ         | 8,45    | U           | 0.45 U           | 0.450            | 0.45(U           | 0.45)***        | 0.≠5 C          | ₹(45 E)         |
| TOIS         | Telecons                 | रेश [‡] शुस  | 71            | ĒJ        | 12      | EI          | 12 61            | 1.5              | (.4)             | 59,             | 140             | - 68            |
| TOIS         | hars-1, L-Dichkraeihene  | ់ពាវទូម               | D.5           | U 3       | 9.5     | ľ           | 0.6 10           | 0.6[3            | O.C.U            | 66 U            | 0.6 U           | 3.6 U           |
| TOIS         | trans-1.1-Dichkcopropene | £m138                 | 9.59          | UJ J      | 8.69    | C           | 0654)            | 0.69             | 068 C            | 069(W)          | 0.69 UJ         | 8.59 U3         |
| 10015        | Trickla gettiere         | £mžgu                 | 1 2           | j j       | G.87    |             | 0.6              | 922 U            | 0.33             | 2.5 1           | 5,3 ]           | 2.5 F           |
| <b>70</b> 15 | Trichlocoffeoreanethane  | ug*m3                 |               | ,         | 1.1     |             | 17               | 9 <i>9</i> 7     | 3:               | 42              | 6.1             | 4.6             |
| TOIS         | Vinglateor               | n5.u2                 | 0.54          | Ç         | 0.54    | L ]         | 0.54 U           | 3.54 ()          | 0 54 U           | 9.54 U          | O PA D          | 0.54 U          |
| TOIS         | Viny. Komiže             | ug:m3                 | ŭ <u>.</u> 63 | U         | 0.67    | U           | 0.67 U           | 3.57 U           | <b>3</b> 67 E    | 9.67 ປ          | 067 J           | 0.67 L          |
| TO15         | Vinyl classide           | eng/m3                | €.1           | U         | 0.1     | L           | 010              | 0 j [t           | 010              | 24 J            | 0.39,0          | 0.1 L)          |
| 70:5         | Xylene, h/2              | பதர்கள்               | 9.7           | Ţ         | 3.3     |             | 7.3              | 0.79             | 0.66 (           | 83 [            | 250             | 293             |
| TODS         | Nykoe, a                 | ugeni3                | 2.3           | :)        | L.I     |             | 2.2              | 0.56 C           | 9.65 U           | 27              | 88 1            | 38              |

NOTES:

QC Code: FS = Field Sample, FD = Field Buplicate

Qualifiers: U = Non-feire led, UI = Nun-detected extinuited, I = Estimated,

El - Estimples; concentration is above the linear range of calibratic

Units upit B = Micrograms per cable meter

### TABLE 2 - SUMMARY OF ANALYTICAL RESULTS OATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING MEY CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|              | Steman                                    | te Delivery Group      | C4002659          | C:892950         | C1902068         | £1900068             | ( C1833/8)                                      | C1002060         | C4991669         |
|--------------|-------------------------------------------|------------------------|-------------------|------------------|------------------|----------------------|-------------------------------------------------|------------------|------------------|
| <del></del>  |                                           | Location               | A-SS-CL           | A-\$\$.402       | A-55-03          | B-55-01              | B-\$\$-02                                       | 8 (\$2.0)        | £-\$\$-01        |
|              |                                           | Sample Date            | 2/15/2010         | 2:15/2018        | 2/15/2010        | 2/16/2C19            | 空移位组备                                           | 2/16/2010        | 2167010          |
|              |                                           | Sempk 10               | 150043A-SS-91     | 120043A-5S-02    | 138043A-SS-03    | 120043B-85-01        | 1200438-65-02                                   | 1990438-55-03    | 13904UF-SS-01    |
|              |                                           | QC Code                | FS                | FS               | ES               | FS                   | :\$                                             | FS               | FS.              |
| Analysis     | Param Name                                | Luits                  | Resi Omine        | Result Quality   | Result Qualifier | Result Qualifier     | Result Qualctier                                | Result Qual: Ser | Result Qualifie: |
| 30.5         | 1.1.1-Tric/fercethane                     | Unigu                  | 240               | 2.8              | 99               | 1909 EU              | 343                                             | 150 EI           | 50               |
| TOIL         | 1.1.2.2-Tejrachloweitane                  | પહોલન                  | 133               | 1 U              | ! U              | I [C                 | 1 LT                                            | 141_             | 1 U              |
| TOU          | 1.1.2-Tuchiero-1,2.2-Trif weroelhare      | ug/653                 | 11                | 2.3              | 470 EJ           | 35                   | 3.2                                             | 74               | 1 2 U            |
| TOIS         | 1,1,2-Tijehoroeitune                      | ಚ್ರಾಸಿಕರೆ              | 1.5 [             | 0.83 U           | 0.83 U           | 6.83 U               | 3.8                                             | 1.1              | 0.81 U           |
| TO15         | i.i-Diddonedane                           | ugʻ⊏d                  | 19                | 0.6Z U           | 0.621)           | 55                   | 3.5                                             | 32               | 0.62 U           |
| TOIS         | 1.1-Dichtoromiene                         | 80,143                 | এক য              | C.6 +J           | 3.6 U            | 0.6 (5               | 2.5                                             | 060              | 0.5 U            |
| TO15         | 1.2.2-Trichesokenzere                     | HQ:T                   | 1101              | 1.1 C            | 1.I(U .          | <u>!.![</u> U        | 1.1(U.7<br>401)                                 | 1.1(0)           | 1-1-1            |
| TOIS         | 1.2,4-Zromethyfoenzene                    | ноль!                  | 2.9 1             | 1.3()            | 6.7 1            | [2]                  | 1.21 <u>1.0</u>                                 | 3.111            | 111              |
| 1015         | 1.2-Dibiomoethane                         | EE th E     | 1.2 (.)           | 1.20             | 1.2 U            | 1.2 U                | 1.2 <u>30</u> 0                                 | 1.25U5<br>1.13U  | L2 G             |
| TOIS         | 1,2-Britism-1,1,2,2-wirdf-sweethane       | ns,w>                  | 1.10              | 1.1.0            | 1.1 L<br>0.92 U  | 0.92 U               | 6,62 <b>1</b> U0                                | 6 2150<br>1 2150 |                  |
| TOIS<br>TOIS | 12-Biolikorghenzene<br>12-Diolikorterhane | 887M3                  | 6.92 UJ<br>6.62 U | 0 52 U<br>0 62 U | 0.92 U           | 0.92 ₁ U  | 0.62[0]                                         | 0.620            | 0.92 U<br>0.62 U |
| 7015         | 1.2-Eachier opengane                      | स्थानुवास<br>स्थानुवास | 0.7 UZ            | 0.7 3            | 0.02E            | 0.72,0<br>0.7-U      | 070                                             | 0.7(0            | 0.710            |
| TQ15         | 12.5-Trimethy Dentesse                    | #B##3                  | 0.7 02            | 975 (7)          | 2.3 J            | 0,75,627             | <u> </u>                                        | 075]]            | 0.75 LU          |
| TOIS         | LI-Sundice                                | 85,423<br>85,413       | 0.34 [            | 034 0            | 0.34             | 0.34)U               | 9340                                            | 03410            | 0.14:U           |
| 1015         | 13-Dichtostenzese                         | ug:m3                  | 6.92 (3)          | 392 J            | 0.92 U           | 092IU                | 392 (J)                                         | 992 01           | 0.9290           |
| 7015         | 1,4-O-chiorobergzee                       | महासाउ                 | 0.92              | <u> </u>         | 0 42 U           | 952 U                | 393.10                                          | 9.52 UJ          | 0.9240           |
| 7015         | 1,4-Ciexane                               | ug/m3                  | 1.1 U7            | 113              | ı.IU             | 11(0                 | 17                                              | וווו             | 0.4 ()           |
| TOIS         | Z-Bulanone                                | ug/m3                  | 13                | 29               | 4                | 6 <b>6</b> [         | 7.8.                                            | \$.73            | 4.7              |
| Tois         | I-Herange                                 | स्थान है               | 1.2 (1.7          | 12 U             | 7.1 1            | 13                   | 1211                                            | 1.2 U)           | 12 J             |
| TOS          | 3-Preparo                                 | eg/m3                  | 263               | 40               | 53               | 51 EI                | 250                                             | 50 E             | <b>6</b> 6 🗈     |
| 10.3         | 4-Eilig/toleane                           | <u>65m23</u>           | 0.75 U.           | 9.75 E           | 7,3              | U 55 I               | <u>9.7 -                                   </u> | 133              | ១ក្ស             |
| 7075         | 4-Metry 5-2-pentanense                    | -इनाउ                  | 4. ÿ. j           | # 2 <u> </u>     | 1.               | 2.1                  | 34                                              | 1200             | 9.96 1           |
| 7015         | Acetons                                   | प्रदर्शनाउँ<br>-       | 270               | 28               | 46               | 110 EJ               | 510                                             | \$2 EJ           | ស្ន              |
| 7005         | Allyl chlorate                            | : 125/813              | 0.48 Ú            | 0,48 ti          | 048 શ            | U.45 U               | #.48 U                                          | 0.48 U           | 0.48 U           |
| างม          | Bezen                                     | ualti)                 |                   | 9.62             | 43               | 1.5                  | 5                                               | 1.8              | 8,78             |
| TO:3         | idrozyi eVeride                           | म्हणेख                 | Q 545 (U)         | 0.88 U.f         | 0.85 UJ          | 0.88 UI              | 0.28 tj                                         | 6.88 C1          | 0.B8[D]          |
|              | Brontodie Verentellune                    | ught.i                 | 101               | 1E               | 10               | 110                  | 10                                              | II C             | 10               |
| TO15         | Braccofern                                | Est Str                | 0.55 E            | 1.6 U<br>0.59 U  | 1.5 U<br>0.59 U  | 1.5 U                | 1.6 UI<br>0.39 U                                | L6 UF<br>0.59 U  | 1.5 []           |
| 1015<br>TO15 | Bramanerium<br>Carbon digitida            | 115/103                | 68                | 6.98             | 1.3              | 0.59 U               | 10.                                             | 3.2              | 0.59 U<br>1.2    |
| TO(5         | Carbon ferministe                         | නැලුල<br>වන්දලම        | 05€ (J)           | 0.95 U           | 0.95 U           | C.96 U               | 0.56 L                                          | 0.96/U           | 0.96 U           |
| TOE          | Chiarotes zone                            | ugind                  | 3.7 (1)           | 6.3:U            | 9.7 U            | 0.7L                 | 0.7 ₁ Gr                             | 0.71.05          | 0.714            |
| TO15         | Calorodition canethans                    | Intgu                  | 13(1)             | 1.3°C            | 130              | 130                  | 13 01                                           | 13 U             | 1.30             |
| 7015         | Cherostane                                | ngim3                  | 0.4 U             | 640              | 0.4 U            | 0.£ L                | 0.4 ()                                          | 0.415            | 0.4 1.5          |
| 1015         | Chlerotopa                                | 115,417                | 210               | 29               | 10               | 4.6                  | 31                                              | 17               | 0.74 U           |
| 7015         | Coccephan                                 | ns,wy                  | 0.31 0            | 0.31 C           | 0.31 U           | 0.31 U               | 0.31 U                                          | 6,31 (7          | 0.31 U           |
| TO:5         | Cis.1,2Dicidorocinere                     | មន្ត'គេធំ              | 2800 E1           | 0.610            | 0.5 U            | 19                   | 25                                              | 8.5              | 0.5 U            |
| 1015         | cis-1.3-Digitheropropone                  | មន្តាក                 | 0.67 (.)          | 0.69/U           | 0.69 1.          | C.69)U               | 0.69()                                          | 0.69 U           | 0.69 U           |
| 1045         | C) südintsane                             | ug'm .                 | 23                | 4.2              | 0.52 15          | 0.52 U               | 0.52 €                                          | 6.52 U           | 0.52 G           |
| TOIS         | Dichlerce: fluoromethen:                  | ug'mi                  | 8.75 5            | 3.8              | 2.3              | 2.3                  | 2.6                                             | 2.8              | 5.7              |
| TGIS         | Ethylocetate                              | មនៈ៣3                  | C.91 U            | 092 J            | 8.92 U           | 0.92[1]              | 0. <b>\$2</b> .E                                | 0.92 U           | 0.92 U           |
| TOIS         | Ethyl benzere                             | บุฐากวิ                | 8.5 (             | 0.62 J           | [8]              | 22                   | 170                                             | .80 EJ           | 1.7              |
| TO 15        | Неркане                                   | ug/m3                  | C.63 UJ           | 0.62 53          | 3.6              | 0.62) U              | 0,€21(I)                                        | 0.67 U           | 0.62EU           |
| TC:5         | Hazachkorobotschene                       | र्यक्षप्रम             | 1.5 L.            | 16 U             | L6 D ;           | 1.6°U                | £6 (J)                                          | \$.6.(U)         | 1.6.0            |
| TC:5         | Нежене                                    | £migu                  | 5.9               |                  | 4.7              | Q54 [®] U § | 0.34°U                                          | -0.54 U          | 0.54 U           |
| TG15         | Iscacta:#                                 | ugim3                  | 2.5 /             | 0.73 7/          | C,47 I           | 07FU                 | 97117                                           | 07LU             | 6.71°U           |
| 1015         | Methyl Tentional Either                   | ug/m3                  | 0.55 (3           | 0.55 7/1         | 0.55 UJ          | 0.55 LT              | 955 W                                           | 0.55 U/          | 0.55 UC          |
| TØ15         | Methyletse chloride                       | म्हुगा3                | 71                | 953 U            | 0.53 ()          | 0.53 E               | 0131                                            | 053U             | 0.53[0           |

### TABLE 2 - SUMMARY OF ANALYTICAL RESULTS OATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|          |                             | Sample Delivery Group | CJC62059        | €1803060         | C1002868         | CMG2050             | C13(04(6))          | C1002068           | S10(92863        |
|----------|-----------------------------|-----------------------|-----------------|------------------|------------------|---------------------|---------------------|--------------------|------------------|
|          |                             | Location              | A-53-01         | A-95-92          | A-SS-64          | B-\$5-61            | 8-5 <u>\$</u> -02   | B-\$\$-¢3          | F-\$\$-01        |
| _        |                             | Sample Dote           | 2/15/2010       | 215/2018         | 2/15/2010        | 2/16/2010           | 276-2019            | 2/16/2010          | 2062910          |
|          |                             | Sample (D             | 13/043A-58-01   | 130645A-5S-02    | 130045A-SS-03    | 430043E-SS-01       | .30043B-SS-02       | 1300438-5S-03      | 13040F-SS-61     |
|          |                             | QC Code               | f§              | <b>3</b> 55      | ES ES            | FS FS               | _FS                 | FS                 | FS               |
| Analysis | Peram Name                  | Units                 | Resit Qualifier | Result Qualifier | Result Qualifier | Res 🚉 Qualifier     | Result Qualities    | Result. (hualitier | Result Qualifie: |
| 7017 _   | Fromboo                     | £4113                 | 0.26 C          | 9.35 L           | 0.26 U           | 026 J               | 9.26 U              | 0.36 <u> </u> U    | 92£ J            |
| 70% j    | Styren:                     | (140.5c.              | 1.6;]           | \$.65 U          | 0.66             | 26                  | 8.65 L1             | 0.55 (1)           | 9.5) [           |
| TO:5     | Tetrachlancectens           | j 25413               | 400008          | 4,603            | 42,000           | 4,20¢               | [,6( <del>0</del> ) | 1,790 3            | 290              |
| TO:3     | Telialiydrofuran            | महास्त्र              | 045 U           | 0.45 UT          | 045 U)           | 0.45 JJ             | 945 (1)             | 0.45[[]]           | 9.45 [1]         |
| TO15     | Telpeno                     | មន្តវិទ្ធា            | <u>:¢</u>       | 3                | 7.7              | 17                  | 76                  | 46                 | 7.8              |
| TO15     | irans-1.2-Didderoothere     | முற்றி                | 426             | 0.5              | 0610             | ១៥ ដ                | 5.1                 | 7.6 U              | 9€ ∪             |
| 1015     | arasterica-Dadalescopropend | िस्तर्भ               | 0.65 (3)        | 0.63             | 1769 N           | D.\$ <del>3</del> ∐ | 8.57 U              | 0.59 U             | 0.69 1           |
| TOIS     | Techorosiliene              | रिग्रह्म              | 4400 J          | F1               | 19               | 16803               | 31090               | 4100               | 1 8.0            |
| 1015     | Trick or all a months are   | up v                  | 0.56[0]         | 1.4              | 21               | 3.5                 | 55                  | 52                 | 5.7              |
| TOI:     | Virgi acetate               | Letter L              | 9.54 ()         | 0.54°UT          | 0.54 151         | 0.5¢ UJ             | £55 UT              | C.54 UT            | 0.54 (1)         |
| 1015     | Vind bremale                | tej;⊃;                | 967 J           | 0.67 U           | 8:67 U           | £.57 (j             | 0.67 U              | 0.67 ()            | 0.67 U           |
| TO!5     | Vind Oleride                | ingth!                | 0 39 U          | 0.39 1           | <b>0.3</b> 3 U   | €,39 U              | 0.39 U              | 0.39 U             | 0.39 U           |
| TOIS     | Nytene, men                 | 18,40°                | 32              | 1.8              | 3,4              | 92                  | 1200                | 740 E1             | 5.4              |
| rois .   | Kyiene, a                   | មគ្គរិការិ            | 8)              | 0.62 I           | 1.5              | 10                  | 150                 | <b>20</b>          | 0.88             |

NOTES

QC/Code FS = Field Sangle, FD = Field Duplimie

Qualifier: U = Nun-detected, 191 = Non-detected estimated, 3 = Estimated,

\$3 = Estimated; occognitation is above the linear range of makeratic

Cuis, wind = Micrograns per rubic meter

### TABLE 2 - SUMMARY OF ANALYTICAL RESULTS DATA USABLITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPUNG NEW CASSEL INDUSTRIAL AREA VIESTBURY, NEW YORK

|             | Seconda Seconda                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Definery Graup.              | C3002889                 | C: 902963        | C1905060         | C1002060          | C1002060           | C1302060          | C1002360          |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|------------------|------------------|-------------------|--------------------|-------------------|-------------------|
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Lacation                     | F-35-52                  | F-SS-03          | K-\$\$-01        | K-SS-02           | K-88-03            | N-SS-01           | N-SS-82           |
|             | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Samok Date                   | 2/16/2010                | 2/15/2030        | 2/16/2019        | 2/16/2013         | 2/16/2310          | 2162010           | 2/16/2010         |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sample ID                    | 136045F-554C2            | 130043F/SS-#3    | 1300A3K-SS-01    | 1330428-53-02     | 1300438-55-03      | 138843N-SS-31     | 13094319-55-02    |
|             | <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | QC Code                      | F3                       | F5               | 73               | ES                | FS                 | 38 35 41          | f3                |
| 3 a 1 b six | Parum Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Units                        | Result Opplifier         | Result Osalilies | Result Gualifies | Result Outliter   | Result   Dualifier | Result. Guelifier | Result Ouallier   |
| TOIS        | 1 Arathlerochane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | cent3                        | 9.9:                     | 10               | त                | 36                | 2:00               | .390              | \$900E2           |
| TOIS        | 122-Terochloroetlesse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (2)H(3                       | i iii                    | I C              | 1111             | 1 1               | 1111               | 11111             | IJ                |
| TOIS        | 1,12-Trichlero-1,72-Trifucraethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>டி</b> வ்து               | 1.2 U                    | 1.2 U            | 1.214            | 1210              | 5                  | 13                | 26                |
|             | 1.3.2-Triorioroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 92:#:J                       | 0.83-0                   | C.83 U           | 0.83 L           | 083 8             | 0.83 (X)           | 0.83 U            | 0.83 (3           |
| TOIS        | 1.1 Dichlaror lane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ध्याद्ध                      | 0.62 C                   | 0.62 U           | 1.9              | 17                | 35                 | 2.1               | 16                |
| TOIS        | 1,3-Dichlaromene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | இன்று                        | 0.€⊍                     | C.6! U           | 0,6/1.           | ରକ ପ              | €€ ઇ               | 0.6 U             | 321               |
| TOIS        | 1,2,4-tinghero semente                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | रक्षांच्य                    | :iju                     | Li O             | Li 🛈             | ប!.ម              | 1 : [#J            | 1.1 (0)           | π. ω_             |
| TOIS        | 1,2,4-Trimerhylbergenn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | บอกษี                        | 7.4₽                     | -2,              | 2,7 1            | a,75 Ui           | я:                 | 2.183             | 660 E3            |
|             | 1.2-Dibromeethan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ug/mil                       | 1.2 (1)                  | 1.2.51           | L2 (J)           | 1.2 U             | 15.01              | 1.2 UI            | 15 W              |
|             | 1,3-Dicitione-1_1,2,2-miraff to recibane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | மதால்                        | LU                       | 110              | LIU              | I.I C             | 1.1 년              | 7.F 🜓             | 1.1 U             |
|             | 1,3-Didtlorebetzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ນg່⊐ນີ                       | 992 EH                   | 052 U            | 9-92-LU          | 0.92 U            | 0.92 UJ            | 0.92 113          | 0.92 UJ           |
|             | 1,2-Distribrocthane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | បស្តុំគោរិ                   | 3 52 U                   | 062 U            | 0.62(U           | 6.67 U            | 0.52 U             | 0.62 U            | 0.52 U            |
|             | 1.2-Did laregrapane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | បស្តីអានិ                    | 374                      | 97 U             | 0.7 (1           | 9.7七              | 0.7 0.5            | 070               | - 107 UJ          |
|             | 1.3,5-Tipmethylocazone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ugms                         | 2.1)                     | 0.79 01          | 0.8              | 0.75 (1)          | 2111               |                   | 380 8.1           |
|             | L.3-Butadiene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ១៩/៣៦                        | 3,34 E                   | 0.14 U           | 01410            | 0.34(1)           | 0.34 L             | 034U<br>090U      | 9.34 U            |
|             | L3-Dickorphenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | បន្ទាគាទ                     | 0.92[U]<br>0.920 T       | 3.32 U           | 090 UJ           | 0.52(0)           | 6.92 UI            | 0.92 0.1          | 0.92 UI           |
| TOIS        | i.4 Daliborobengene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | មន្ត/ពារិ                    | 13.55.1 L.1<br>  L.1 L.1 | 0.93 U           | 091/UI<br>1_1 U  | 0.924D<br>1.11G   | 0.93 CT            | 1.10              | 0.93[U]<br>20     |
| TO15        | 1.4-Drexme<br>2-Buiznes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 98/m3<br>98/m3               | 121<br>121               | 1.7              | 661              | 2                 | 57.                | 9.5               | 140 E             |
| TOIS        | I-deaper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ម្ភាគមួយ<br>មិនាធ្វើ         |                          | 1.2 U            | 12 UI            | 1.3 1             | 2641               | 7.5<br>2.4.J      | 31.               |
| TO15        | 2-Propanti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | रामध्य                       | 39                       | 25               | 32               | 4-1               | 6.17[J]            | 54                | 876)              |
|             | 4-Ethilopie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | யதுள3                        | 1.81                     | 0.75 U           | 9953             | গুড়া             | 15 1               | 8.753             | 286 E3            |
|             | 4-Methyl-2-pentumne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ເຊາຄວິ                       | 3.(1)                    | 0.75             | 1.2.1            | 12 U              | 13 1               | 1.3)              | 13                |
|             | Actions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>uş/m</u> 3                | 300                      | 43               | 95               | 32                | 200 33             | 113               | 1200 83           |
|             | Allylichlands                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | egyin:3                      | 0.48 ()                  | £48)€            | 0.481.           | 043 U             | 9.48 J             | 8.48 U            | 0.4310            |
|             | Велисте                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | :20m3                        | 3.2                      | 0.4211           | 6,3              | ก.รธ              | 63                 | 2,6               | 9.4               |
| TG15        | Benzol citeria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 22m3                         | 0.88;03                  | C.88 I II        | 0.86 LT          | n.88 U)           | 0.58 (J)           | C.38 LF           | 0.88 (1)          |
| TOIS        | Bremodici leremethare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12g/ar3                      | 10                       | I (U             | l L'             | 1/U               | : 10               | 10                | <u> (U)</u>       |
| TOH5        | Breacters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11 இது                       | 1.6 (C)                  | 1.6(t)           | 1.6313           | I.6 U             | 16 U               | L.6 U             | 16 U)             |
| TOI5        | Breezensekuns                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ലങ്ങി                        | 0.5S U                   | 0.39(0           | 0.59 U           | 0.59 U            | 0.59 H             | 9.39 U            | 0.59 U            |
| iOI5        | Carbon displifide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | म्हर्भर 🕽                    | 5.ć                      | 0.57             | [4               | 1.5               | [1]                | 6.2               | 15                |
| TOIS        | Carponianist Experimental Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian Carponian | ලේක්වී                       | 036 U                    | 9.96 U           | 0.71             | 0.95 U            | 0.95 [J]           | 0.8€ FI           | 0.95 01           |
|             | Chiatobene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ആ'ബി                         | ) TU                     | 64/a             | 0.7 W            | 0.7 U             | វភ្ជារ             | 0.7 9)            | 0,513             |
|             | Chloredibromoniethare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ពសិ _. ឃ3          | 17 11                    | 13 0             | ω                | 1.5 U             | <u>13U</u>         | 1300              | 13 (3)            |
|             | Chlorechane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ug/m3                        | 3.4 U ;                  | 0.4]U<br>9.74[U  | 0.4 U            | 0.4 U             | 94 5               | 0.4 L)            | 04 0              |
|             | Chloreform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | វេទ្ធវិការ 🤇                 | 124                      | <u> </u>         | 20               | 8.9               | 27                 | 2.8               | 15                |
|             | Chleicarethine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | og/m3                        | 9.31 U                   | 0.32 U           | 0.31 (/          | 6.31 U            | 9 X U              | 031 U             | 0.31 U            |
|             | Ces-1,3-Dichlorcechene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ម <u>ខ</u> ្មាក់             | 7.6 U                    | 06 U             | 1.3              | 2.6               | 130                | 2 0 40 40         | 0.64              |
|             | dis-1,3-Dichloropragene Cystohexane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | บอู'กาวั                     | 9.59 U                   | 9.59 U<br>9.52 U | 0.69(U<br>0.52(U | 0.59(U<br>0.52(U  | 3.59(U)<br>16      | 0.69*U<br>3.3     | 0.69(1)           |
|             | Dichlaced:Tuccomethave                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | n5,1113                      | 2.4                      | 9.75 U           | 0.32 J           | 9,4               | U 27.0             | 2                 | 0.52 UJ<br>0.75 U |
|             | Ethylateale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              | 0.92 G                   | 9.72 U           | 0.92 U           | 6.93 U            | 0.92 U             | 092 IJ            | 0.730             |
|             | Elin) beare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ស្នាក់ថ្មិ<br>ខ្មែរក្នុង     | 2.5 j                    | 1.1              | 38               | 4.3               | 171)               | 191               | 230 EJ            |
|             | Steptane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ug'm3                        | 5.3                      | 0.45 J           | 4                | C 6241            | 68                 | 1.5               | 7.512             |
|             | Henre Mereburadiene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5m2n3                        | 1.5 LT                   | 160              | 16 01            |                   | 1.5 U              | 16 11)            | 1.5 0.1           |
|             | Henese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | - ជំនាក់ខ្លួន<br>ជំនាក់ខ្លួន | 7.5                      | 0.54 U           | 4,5              | 0.54 C            | 55 S               | 0.14.0            | 0.54 U            |
|             | Spaciant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Enrigu                       | 0.711.                   | 0.71 U           | 0.31 U           | 0710              | 0.71 (.7           | 07110             | 1.517             |
|             | Met of Tentral Effer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Emigu                        | 6.55 L.T                 | 0.55 (/)         | 0 55 111         | 0.35 <b>1</b> .00 | C.SS GI            | 0.55 111          | 0.55 UJ           |
|             | Methylete chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ugimã                        | 0.53 U                   | 0.53 U           | 0.52 U           | 0.5325            | 0.53 U             | 0.53 U            | C.55) U           |

### TABLE 2 - SUMMARY OF AMALYTICAL RESULTS DATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|          |                          | Sample Belivery Group]            | C1993380        | C1092980         | C1002060        | Q13020 <del>6</del> 8    | C1002060         | £1002068         | C1002950         |
|----------|--------------------------|-----------------------------------|-----------------|------------------|-----------------|--------------------------|------------------|------------------|------------------|
|          |                          | Location                          | F-SS-02         | F-55-03          | K-85-01         | K-35-01                  | K-\$\$-03        | N-58-0.          | N-SS-92          |
|          | · <del></del>            | Sample Date                       | 27,67010        | 2/16/2018        | 2/16/28 (0      | 916-2010                 | 2/16/2010        | 216/2019         | 2/16/2010        |
|          |                          | Sample LD                         | 1300427-85-02   | 130043F-88-03    | 130043K-SS-01   | 138943K-SS-02            | 10045K-53-03     | 10-22-14740061   | 13004304-85-92   |
| ī        |                          | QC Code                           | FS              | FS               | FS.             | ES.                      | <u>?S</u>        | <u>75</u>        | FS               |
| Analysis | Param Name               | Uaits                             | Retalt Qualifie | Resolt Cuntifier | Readt Qualifier | ्रीसक्ष्यः ्रीसक्ष्यास्य | Resalt Qualifier | Result Qualifier | Result Qualifier |
| 70:5     | Propylane                | C&403                             | 9.38 U          | 0.25 U           | 026 U           | 0.26 ()                  | 8.25 U           | 0.26 U           | 9.36 U           |
| TO:5     | Styreae                  | ட்ள <b>்</b>                      | 0.65 (1)        | 0.65 U           | 3-61            | 9.55 U                   | 0.65 UI          | 6.87 )           | 9.65 UJ          |
| TO:5     | Tetrachiloges tene       | _24π3                             | 110[3           | 293              | 280             | <b>6</b> 50              | Li00             | 15,000           | 9,400            |
| TO:5     | Tetrahyaroliman          | ட் மீழ்                           | 0.45 []         | 0.45 UI          | 0.45 0.0        | 0.45 UJ                  | 6.45 CI          | 1.73             | 50.              |
| TOD      | Tologra                  | <u> क्ष्ट्र</u> ांचे              | 12              | 1.4              | 46              | 5.1                      | 35 J             | 2.B J            | 38               |
| TOIS     | trans-1,2-Dicklercethene | िटार्युक्ताः<br>-                 | 0.5 U           | €.6;U            | 260             | 0.6 U                    | 9.5 U            | 0.6 LJ           | 0.6 U            |
| TOIS     | uras-13-Dichleropeupene  | 158 [†] -2- [‡] | C.69[1/         | 0.6910           | 0.69 U          | 0.59 U                   | C.69 UI          | C.69 U           | 8.69 UJ          |
| TO15     | Tricher pethesa          | 1127,723                          | 4.2             | 0.82             | 932             | 490                      | 10000            | 1003             | 3200             |
| TOIS     | Inchlicofluoremet ans    | रिटांद्रा                         | 2.3             | 5.5              | 4.4             | 37                       | 10               | 1.1              | 8.88 U           |
| TO15     | Vind acress              | ug/#1                             | 0.54 LT         | 0.54 (J)         | 0 S4 L71        | 0,54 (2)                 | (-54)(J)         | 0.54 LU          | 654 UJ           |
| TOIS     | Vind bromite             | upini.                            | £ <u>67</u> (₹  | 2677             | 6.67 U          | 0.67(U                   | @ <b>63]U</b>    | 0.67(1)          | 9.67 U           |
| 1015     | Vind Cieride             | மூர்வ                             | G.39[CI         | 0.35 J           | 0.39 U          | 0.39(0)                  | 0.39 U           | 0.39 ()          | 0.39 U           |
| TOIS _   | X dene, mip              | furing.                           | 1411            | 3                | 220             | 15                       | 5C 1             | ±.7 f            | 1500 EI          |
| TOIS     | Xylere, p                | up'mà l                           | 3.8 1           | 0.53 J           | 17              | 1.6                      | 37.1             | 1.6 f            | 640 EI           |

NOTES.

QC Code FS = Field Sample, FB = Field Duplicate

Qualifiers: U = Non-decested, U) = Non-detected estimated, U = Estimated,

Ef = Estimated; occcentration is above the linear range of calibratic

Units: ng/m3 = Mitrograms per subic mater

### TABLE 2 - SUMMARY OF ANALYTICAL RESULTS DATA USABILITY SUMMARY REPORT FEBRUARY 2010 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|               |                                        | ale Definery Group | C,9:             | 22060 ,       | CIE           | 12360     | C190         | a <del>(0</del>                              | C100         | 2060                                             |
|---------------|----------------------------------------|--------------------|------------------|---------------|---------------|-----------|--------------|----------------------------------------------|--------------|--------------------------------------------------|
|               |                                        | Location           | 38-5             | <b>.5-</b> 63 | V-5           | S-01      | . Y-2        | S-02                                         | V.s          | 5-01                                             |
|               |                                        | Sample Bate        | 2/15             | V2010         | 2*18          | /2016     | II Ja        | 2010                                         | 2/18         | /2010                                            |
|               |                                        | Sample ID          | 130043           | N-SS-03       | _30043        | Y-SS-91   | 13001)       | V-SS-02                                      | 155643       | V-SS-63                                          |
|               |                                        | QC Code            |                  | 5.5           |               | 3         |              | \$                                           |              | S                                                |
|               | Рэгэш Маше                             | Units              | Result           | ्रिजीक्षर     | Result        | Qualifica | Restêt       | Qualifier                                    | Result       | Qualifica                                        |
| 70 II         | I, I, I-Trichlocoethane                | (mga )             | 649              |               | 5530          |           | 59003        |                                              | 27900        | L                                                |
| TOIS          | 13.1.2.7-terethkepellisse              | மூர்க ]            | !                | U .           |               | U         |              |                                              | :            | ]                                                |
| TO::5         | 1.1.2-Trithlore-1.2.2-Triff:avoethane  | og m3              | 3                |               | 8.3           |           | 2.1          |                                              | 12           |                                                  |
| TQ:5          | 1.1.2-Trichlosce:hone                  | 6111110            | 0.83             | <u> </u>      | 6.83          |           | 6.83         |                                              | 18           |                                                  |
| TO is         | 1,1-D claboratizate                    | டால                | 0.78             |               | 72            |           | 79           |                                              | 7900         |                                                  |
| TOIS_         | 1,1-Dichlorostione                     |                    | 0.5              |               | 54            |           | 783          |                                              | 240          |                                                  |
| TOIS          | 1.2.4-Trisiderobergene                 | ugát)              | <u> </u>         |               | <u>t.</u> 1   |           | 1.1          |                                              | _ [.]        | ប                                                |
| TOIS          | 1,2,4-Trimein/lbenzene                 | 220:3              | 1.9              | -             |               | j.        | _15          |                                              | - 7          |                                                  |
| TG15          | 1,3-Dihomoethane                       | ार्ख्याच्ये        |                  |               | <u> </u>      |           | 1.2          |                                              | 1.2          |                                                  |
| .TO 15        | 1,2-Dichloro-1,1,2,2-estrat sercethane | upint.             |                  | J.            | 1,1           |           | - 11         |                                              | ].1          |                                                  |
| 7015          | 1,2-Dictiliproberzene                  | up'us'             | 0.92             |               | 0.90          | 1         | 0.92         |                                              | 6.92         |                                                  |
| 7043          | 12-Dichlarce;hane                      | र प्रकृतिको        | 9.52             |               | 0.62          |           | 0.67         |                                              | G.62         |                                                  |
| 1035          | 1,2-Dichlercoropare                    | ug/mil             | 0.7              |               | 0.7           |           | 0.7          |                                              | 0.7          |                                                  |
| 1013<br>1013  | 1,3,5-Tricrethy Denance                | 11 <u>8</u> ftt 5  | 1.7<br>0.34      |               | 1.7           |           | 13           |                                              | 4,5<br>0,34  | Į.                                               |
| 1015<br>TO15  | 1,3-Suaditne                           | រដ្ឋវិធានិ         | 9.24<br>8.92     |               | 9.34)<br>9.92 |           | 0.34<br>0.91 |                                              | 0.34<br>0.92 | <u> </u>                                         |
| TOE           | 1.3-Die Verobenzene                    | ug*ms3             | 9.92<br>8.92     |               | 0.92<br>0.92  |           | 0.92         |                                              |              |                                                  |
| 1003          | 1,4-Bickerobenzwe                      | ug*m5              | 1.1              | 1.7           | 7.5           |           | 27           |                                              | <u>0 93</u>  | E)                                               |
| 103           | 12-Saturous                            | ug:m3              | <u> </u>         | it.           | 2.7           |           | 49           | <u> </u>                                     | <u></u>      | <u> </u>                                         |
| TOIS          | 2-itranene                             | ug/m3              |                  | l —           | 13            |           | 0.92         |                                              |              | <del>-</del>                                     |
| TO35          | 2-3 mp2-64                             | 05,013             | 68               | <del> </del>  |               | E         | 21           | 1                                            | 43           |                                                  |
| TOIS          | 4-Edylefacus                           | ug/m3              | <u>~~</u><br>ذ.ا | -             | <u> </u>      |           | Ø.75         |                                              | 6.6          |                                                  |
| TOIS          | 4-Methyl-2-persanous                   | Cm'gu              | C.75             | h -           | 12            |           | 1000         |                                              | 13           | <del>                                     </del> |
| TOIS          | Aprisos                                | Emigo              | 35               | ľ             | 38            |           | 350          |                                              | 49           |                                                  |
| 7015          | Mileichkride                           | 2924m3             | £4g              | 11:           | 0.48          | 13        | 8.48         | 19                                           | 0.48         | 1.                                               |
| 1015          | Seizere                                | Emise              | €.65             |               | 1.3           |           | 1.5          | <u>.                                    </u> | 2 1          |                                                  |
| TO15          | Benzyl shloride                        | ng/itt3            | 0.23             | <u>+];</u>    | £.88          | w l       | 0.88         | u:                                           | 0.68         | UI -                                             |
| TOIS          | Broscodit/Torogrethane                 | - 2°F-1            |                  | j i           |               | u 1       | i            | Đ                                            | 1-           | U                                                |
| TC15          | Висичебит                              | 32°C)              | 1.6              | i i           | 1.6           | u l       | į á          | LL:                                          | 1.5          | U                                                |
| TC:5          | Втопесние/балк                         | प्रश्लो⊐ी          | 929              | IJ I          | 0.59          | u         | 0.59         | Ų                                            | 8.59         | Ĺ;                                               |
| 1015          | Carbon deseltitide                     | ug/m1              | 1.9              |               | 0.79          | 1         | 9.2          |                                              | 4.1          |                                                  |
| TQ15          | Carbon tetrachtoni <b>5</b> e          | ពិស្ថិនក្          | €96              |               | Ð. 9          | ]         | 9.96         | บ                                            | 6.96         | Ų                                                |
| TQ15          | Chloreterzone                          | eran               | 97               | , - ,         | 9.7           | J         | 0,7          |                                              | 0.7          | U                                                |
| TOIS          | Cliforodibromomellizate                | up.*m-5            | 1.3              |               | 3 3           |           | 1.3          |                                              | 1.3          |                                                  |
| 70tá          | Cirlorce:tane                          | <b>110</b> €1813   | 3.4              |               | Ð 4           | Ц         | 0.4          | U                                            | Ð.†          |                                                  |
| TOIS          | Cidentions                             | ug/m3              | Ø.59             |               | 87            |           | £.3          |                                              | 43           |                                                  |
| TO15          | Chloremethane                          | ug'm3              | D.34             |               | (13)          | Ш         | 03(          |                                              | 631          | Į.t                                              |
| 1015          | Cas-1,2-Dichlorecthem                  | 98,013             | 9. <u>š</u>      |               | } <u>}</u>    |           | 0.6          | ij.                                          | 49           |                                                  |
| 1015 <u> </u> | pisquagens/SiC-E,1-sig                 | <b>ug</b> /m3      | (1.69            |               | 9.69          |           | 0.69         |                                              | 6.69         |                                                  |
| TOI≊          | O) all chereator                       | முன்               | 0.52             |               | 0.52          |           | 0.52         | II                                           | 0.52         |                                                  |
| TO:5          | Dichered fluorestations                | ugim)              | 0.75             |               | 0.75          |           | 2.2          |                                              | 0.75         |                                                  |
| 1015          | Ethylacetae                            | ugini)             | €.93             | Đ.            | 0.92          | u .       |              |                                              | 6-52         |                                                  |
| TOIS          | Ethy: benzene                          | ug/m3              | 2.8              |               | 15            |           | 390          |                                              | 55           | EJ                                               |
| TOIS          | Heritage                               | <u> 188</u> /m3    | €.79             |               | 1 2           |           | 3.3          |                                              | 1.8          |                                                  |
| TO15          | Itexaclei poliuladicus                 | (m/ge)             | 1.6              |               | 1.6           |           | 1.5          | U)                                           | 3.6          |                                                  |
| TO 15         | Hexare                                 | 22/103             | €.34             |               | 0.54          |           | 3.5          |                                              | 0.54         |                                                  |
| 1015          | Jacobathe                              | Lag/n:J            | 0.71             |               | 6.71          |           | 0.71         |                                              | 0.72         |                                                  |
| 1015          | Modist Tentantal Educa                 | 2013               | 0.55             |               | <b>0.5</b> 5  |           | 0.55         |                                              | 355          |                                                  |
| TC15          | Methylene Choride                      | <i>120</i> 1⊏3     | 9.53             | 0             | Ç.53          | U         | 0.53         | IJ                                           | <u>0</u> 53  | IJ                                               |

### TABLE 2 - SUMMARY OF ANALYTICAL RESULTS DATA USABILITY SUMMARY REFORT FEBRUARY 2010 AR SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|          |                             | Sample Delinery Group, | Cia    | 2060 i        | CIBH  | 92060    | CIO    | 1060       | CIO          | 200      |
|----------|-----------------------------|------------------------|--------|---------------|-------|----------|--------|------------|--------------|----------|
|          |                             | Location.              | 34-5   | \$-0 <u>5</u> | ¥-S   | S-01     | ¥-S    | 5-02       | V-\$         | \$-03    |
|          | <del></del>                 | Sample Date,           | T.16   | 2010          | 2/18  | 7616     | 2/13   | 2010       | 2:3          | 2810     |
|          |                             | Sample 10              | 130043 | 14-55-03      | 30843 | V-33-01  | 130043 | V-SS-02    | 130043       | V-55-63  |
|          |                             | QC Code                |        | \$            |       | <u> </u> | F      | S          | F            | <u>s</u> |
| Analysis | Parvis Name                 | Units                  | Resit  | Qualifier     | Resum | Çuzifer  | Result | Qualifier  | Result       | Ouslifes |
| T015     | Propylere                   | 92°(113                | 936    | Ł             | 0.25  | U .      | 436    | <b>{</b> . | 926          | ji       |
| TO:5     | Styrieses                   | មេរិក្សា               | E&1    | U             | 0.65  | U        | 965    | IJ         | 0.55         | Ü        |
| TO:5     | Lemaniares vene             | 201                    | 1,220  | _             | 1,100 |          | 780    | Ī          | 1,503        |          |
| 70:3     | Tetralistrofuran            | DZ-fai J               | 15     | )             | 0.45  | Ų:       | £45    | [ŧJ        | 0.45         | tj       |
| TOB      | Toluens                     | ्रिकांख्य<br>-         | 2.8    |               | 5.1   | 7        | 320    |            | 12           |          |
| TOE      | James 1,2-Dichleroethene    | ಲಕ್ಷಿಗೇಟೆ              | 0.6    |               | C.6   | į.       | 9.5    | L <b>f</b> | 2.9          |          |
| TO15     | (trans-1,3-Dichler apropens | BRITE                  | C.69   |               | 0.69  | lu l     | 0.69   | L.         | 6.69         | Ü        |
| TOIS     | Trichkepellitre             | n8,terj                | 80     |               | 1009  | ]        | 43     | J          | 883          |          |
| TOIS     | TrichleteReoremofbane       | ug/m}                  | 1.2    |               | 1     | ]        | 2.6    |            | 2.7          |          |
| TGIS     | Viny) ocease                | 6 m2 a                 | 0.54   | W.            | 3.54  | UI I     | 0.54   | LH .       | 0.54         | -U)      |
| FC15     | Viny bramide                | 88°m3 .                | 96,    | T3            | 3.53  | /u{      | 0.63   | U          | 9 <i>6</i> 7 |          |
| 7015     | Vjayl chkride               | 88 ² m3     | 0.39   | Q .           | 3.29  | U [      | 0.39   | U          | <u> </u>     |          |
| TOLS     | Mytene mip                  | eg/m3                  | 13     |               | 59    | <u> </u> | 1500   |            | 200          |          |
| E015     | XI REA O                    | ugfm3                  | 3      |               | 10    |          | 360    | I          | 5.3          | ΞJ       |

NOTES:

QC Case: FS = Field Sample, FD = Field Duplicate

Qualifiers: U = Non-detroied, III = Non-detroied estimated, I = Estimated,

El = Estimated; concentration is above the linear range of ealthratic

Units: up/th2 = Micrograms per cubic meter

### DATA USABILITY SUMMARY REPORT MAY 2010 SOIL SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

### 1.0 INTRODUCTION

Four soil samples were collected at the New Cassel Industrial Area in Westbury, New York in May 2010 and submitted for off-site laboratory analysis. Samples were analyzed by CHEMTECH located in Mountainside, New Jersey. Results were reported in the following Sample Delivery Group (SDG): B2399.

A listing of samples included in this Data Usability Summary Report is presented in Table 1. A summary of the analytical results is presented in Table 2. Samples were analyzed by the following method:

• Volatile organic compounds (VOCs) by USEPA Method 8260B

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Laboratory QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. The following laboratory or data validation qualifiers are used in the final data presentation.

U =target analyte is not detected at the reported detection limit J =concentration is estimated

UJ = target analyte is not detected at the reported detection limit and is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

### 2.0 VOLATILE ORGANIC COMPOUNDS (VOCS)

### **VOC** - Initial Calibration

The initial calibration exceeded the percent relative standard deviation limit of 20 for the compound chloroethane (25). Chloroethane was not detected in any of the associated samples, and the reporting limits were qualified as estimated (UJ).

### **VOC-** Tentatively Identified Compounds

Naphthalene was identified as a tentatively identified compound (TIC) in sample 130043V-DP511 and was qualified as 'NJ'.

Page **1** of **3** 

### Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

Data Validator: Michael Washburn

Date: 06/23/2010

Reviewed by Chris Ricardi, NRCC-EAC

Quality Assurance Officer

Date: 7/21/2010

# TABLE 1 – SAMPLE AND ANALYTICAL SUMMARY DATA USABILITY SUMMARY REPORT MAY 2010 SOIL SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|       |       |          |               |             | Class    | VOC     |
|-------|-------|----------|---------------|-------------|----------|---------|
|       |       |          |               |             | Method   | SW8260B |
|       |       |          |               |             | Fraction | T       |
| SDG   | Media | Location | Sample ID     | Sample Date | QC Code  |         |
| B2399 | Soil  | V-DP-1   | 130043V-DP125 | 5/19/2010   | FS       | Χ       |
| B2399 | Soil  | V-DP-2   | 130043V-DP224 | 5/19/2010   | FS       | Χ       |
| B2399 | Soil  | V-DP-4   | 130043V-DP410 | 5/19/2010   | FS       | Х       |
| B2399 | Soil  | V-DP-5   | 130043V-DP511 | 5/19/2010   | FS       | Χ       |

NOTES: QC Code: FS = Field Sample Media: SV = Soil

Vapor

Sample ID: IA = Indoor Air, AA = Ambient Air, SS = Sub-slab

## TABLE 2 - FINAL RESULTS DATA USABILITY SUMMARY REPORT MAY 2010 SOIL SAMPLING NEW CASSEL INDUSTRIAL AREA WESTBURY, NEW YORK

|                                               | Location       | V-DP-01          | V-DP-02           | V-DP-04          | V-DP-05          |
|-----------------------------------------------|----------------|------------------|-------------------|------------------|------------------|
|                                               | Sample Date    | 5/19/2010        | 5/19/2010         | 5/19/2010        | 5/19/2010        |
|                                               |                |                  |                   | 130043V-DP410    |                  |
|                                               | Qc Code        | FS               | F\$               | FS               | FS ·             |
| Analysis Parameter                            | Units          | Result Qualifier |                   | Result Qualifier | Result Qualifier |
| SW8260B 1.1.1-Trichlcroethane                 | ug/Kg          | 5.5 U            | 5.6 U             | 8.1              | 4.1 U            |
| SW8260B 1,1,2,2-Tetrachloroethane             | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B 1,1,2-Trichloro-1,2,2-Trifluoroethane | ug/Kg          | 5.5 U            | 5.6 U             | 3 บั             | 4.1 U            |
| SW8260B 1,1,2-Trichloroethane                 | ug/Kg          | 5.5 U            | 5.8 U             | 3 U              | 4.1 U            |
| SW8260B 1, 1-Dichloroethane                   | ug/Kg          | 1,7 J            | 5.6 U             | 3.1              | 4.1 U            |
| SW8260B 1,1-Dichloroethene                    | ug/Kg          | 5.5 บ            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B 1.2,4-Trichlorobenzene                | ug/Kg          | 5.5 <b>U</b>     | 5.6 U             | 3 D              | 4.1 U            |
| SW8260B 1,2-Dibromo-3-chloropropane           | υg/ <b>K</b> ğ | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B 1.2-Dibromoethane                     | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B.1,2-Dichlorobenzene                   | ug/Kg          | \$.5 U           | 5.6 U             | 3 Ü              | 4.1 U            |
| SW8250B1.2-Dichloroethane                     | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B 1,2-Dichloropropane                   | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8250B 1,3-Dichforobenzene                   | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B 1,4-Dichlorobenzene                   | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Z-Butanone                            | ug/Kg          | 27 U             | 28 U              | 15 U             | 20 U             |
| SW8260B 2-Hexanone                            | иg/Kg          | 27 U             | 28 U              | 15 U             | 20 U             |
| SW8250B 4-Methyl-2-pentanone                  | ug/Kg          | 27 U             | 28 U              | 15 U             | 20 U             |
| SW8260B Acetic acid, methyl ester             | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Acetone                               | ug/Kg          | 19 J             | 23 J              | 15 U             | 20 U             |
| SW8260B Benzene                               | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Bromodichloromethane                  | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 0            |
| SW8260B Bromoform                             | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Bromornethane                         | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Carbon disulfide                      | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Carbon tetrachloride                  | ug/Kg          | 5.5 U            | 5. <del>6</del> ⊔ | 3 U              | 4.1 U            |
| SW8260B Chlorobenzene                         | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Chlorodibromomethane                  | ug/Kg          | 5.5 U            | 5.6 U             | 3 Ŭ              | 4.1 U            |
| SW8260B Chloroethane                          | ug/Kg          | 5.5 UJ           | 5.6 UJ            | 3 UJ             | 4.1 UJ           |
| SW8260B Chloroform                            | ug/Kg          | 5.5 U            | 5.6 ⊔             | 3 U              | 4.1 U            |
| SW8260B Chloromethane                         | ug/Kg          | 5.5 U            | 5.6 U             | 3 ป              | 4.1 U            |
| SW8260B Cis-1,2-Dichloroethene                | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B cis-1,3-Dichloropropene               | ug/Kg          | 5.5 U            | 5.6 U             | ่ รับ            | 4.1 U            |
| SW8260B Cyclohexane                           | ug/Kg          | 5.5 U            | 5.8 LI            | . 3 U            | 4.1 U            |
| SW82608 Dichlorodifluoromethane               | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Ethyl benzene                         | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Isopropylbenzene                      | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Methyl cyclonexane                    | ug/Kg          | 5.5 U            | 5.6 U             | ง<br>งบ          | 4.1 U            |
| SW8260B Methyl Tertbutyl Ether                | ug/Kg          | 5.5 U            | 5.6 U             | 3 D              | 4.1 U            |
| SW8260B Methylene chloride                    | ugiKg<br>ug/Kg | 3.6 J            | 3.9 J             | 3 U              | 1.2 J            |
| SW8260B Styrene                               | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Tetrachloroethene                     | ug/Kg          | 5.5 U            | 5.6 U             | 1.2 J            | 4,1 U            |
| SW8260B Toluene                               | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B trans-1,2-Dichleroethane              | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B trans-1,3-Dichloropropene             | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SWB260B Trichloroethene                       | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Trichlorofluoromethane                | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Vinyl chloride                        | ug/Kg          | 5.5 U            | 5.6 U             | 3 U              | 4.1 U            |
| SW8260B Xylene, m/p                           | ug/Kg<br>ug/Kg | 5.5 U            | 11 U              | 5.9 U            | 8.2 U            |
| SW8260B Xylene, o                             | ug/Kg<br>ug/Kg | 5.5 U            | 5.6 U             | 5.9 U            | 4.1 U            |
| Tentatively Identified Compounds (TICs)       | ng/Ng          | _ 0.0 0          | <u> </u>          | . 3 0            | 7.10             |
| SW8260B Naphthalene                           | ug/Kg          |                  |                   |                  | 1.6 <b>N</b> J   |
| 21407200 Habitulaichie                        | yg/Ng          |                  |                   |                  | 1.0 (%)          |

### DATA USABILITY SUMMARY REPORT FEBRUARY 2011 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA NEW CASSEL, NEW YORK

### 1.0 INTRODUCTION

Four sub-slab samples and four air samples were collected at the New Cassel Industrial Area in New Cassel, New York in February 2011 and submitted for off-site laboratory analysis. Samples were analyzed by Centek Laboratories located in Syracuse, New York. Results were reported in Sample Delivery Group (SDG) C1102015.

A listing of samples included in this Data Usability Summary Report is presented in Table 1. A summary of the analytical results is presented in Table 2. A summary of data validation actions is presented in Table 3. Samples were analyzed by the following method:

Volatile organic compounds (VOCs) by USEPA Method TO-15

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2010). USEPA Region 2 QC limits were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected at the reported detection limit
 J = concentration is estimated
 UJ = target analyte is not detected at the reported detection limit and is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

### 2.0 VOLATILE ORGANIC COMPOUNDS (VOCS)

### VOC - Internal Standards

One or more internal standard areas were outside control limits in the diluted analyses of the following samples:

| 130043C-SS-01     |
|-------------------|
| 130043C-SS-01 DUP |

Positive detections of tetrachioroethene in both samples and 1,1,1-trichloroethane in 130043C-SS-01 were qualified as estimated (J).

### VOC - Laboratory Control Samples

Percent recoveries of 1,4-dioxane (15, 41) were below control limits in the LCS and LCS/LCSD associated with all sample analyses. These LCS analyses were associated with all initial undiluted analyses of the samples. The relative percent difference (RPD) between LCS and LCSD recoveries for 1,4-dioxane (75) was also outside the control limit. Positive and non-detected results for 1,4-dioxane in all samples in SDG C1102015 were qualified as estimated (J/UJ) as summarized in Table 3 and may represent potential low biases.

All samples in SDG C1102015 were qualified as summarized in Table 3 based on LCS/LSCD percent recoveries and/or RPDs that were outside control limits for the following target analytes:

| Analyte                 | %Rec | RPD |
|-------------------------|------|-----|
| 2-Hexanone              | 66   |     |
| 4-Methyl-2-pentanone    | 42   | 64  |
| Methyl tert-butyl ether | İ    | 40  |
| Tetrahydrofuran         | i    | 32  |

Positive and non-detect results were qualified as estimated (J/UJ) in all samples as summarized in Table 3.

### Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; May 2010.

USEPA Region 2, 2006. "Validating Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15"; SOP # HW-31, Revision 4, Hazardous Waste Support Branch; October 2006.

Data Validator: Julie Ricardi

Date://3/27/2011

Reviewed by Chris Ricardi, NRCC-EAC

Du Recardi.

Juli Miarei

Quality Assurance Officer

Date: 4/13/2011

## TABLE 1 SUMMARY OF SAMPLES AND ANALYTICAL METHODS DATA USABILITY SUMMARY REPORT FEBRUARY 2011 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA SITE NEW CASSEL, NEW YORK

|          |       |          |                     |             | Class     | VOC  |
|----------|-------|----------|---------------------|-------------|-----------|------|
|          |       |          |                     | Analys      | is Method | TO15 |
|          |       |          |                     | -           | Fraction  | Ţ    |
| SDG      | Media | Location | Sample ID           | Sample Date | QC Code   |      |
| C1102015 | AIR   | A-AA-1   | 130043C-AA-01       | 2/1/2011    | FS        | Х    |
| C1102015 | AIR   | A-IA-01  | 130043C-IA-01       | 2/1/2011    | F\$       | Х    |
| C1102015 | AIR   | A-IA-02  | 130043C-IA-02       | 2/1/2011    | FS        | Х    |
| C1102015 | AIR   | A-!A-03  | 130043C-IA-03       | 2/1/2011    | FS .      | X    |
| C1102015 | SV    | N-SS-01  | 130043C-SS-01       | 2/1/2011    | F\$       | Х    |
| C1102015 | SV    | N-SS-01  | 130043C-\$\$-01 DUP | 2/1/2011    | FD        | X    |
| C1102015 | sv    | N-SS-02  | 130043C-SS-02       | 2/1/2011    | F\$       | X    |
| C1102015 | SV    | N-SS-03  | 130043C-SS-03       | 2/1/2011    | FS        | X    |

NOTES:

QC Code

FS = field sample, FD = field duplicate

Media

SV = soil vapor

Porrogents/nyaden/hunject/Mew Casset Industrial Aurard (• See_Dotal).4_Test_Resulls/DUSH/ NCIA_CTTQ0015_Tabla_2_Formalled.xis

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | SUMMARY<br>DATA USA<br>FFIRRUM<br>NEW DASS | TABLE 2 SUMMARY OF ANALYTICAL RESULTS DATA USABILITY SUMMARY REPORT FERRUMY 2011 AIR SAMPUNG NEW CASSEL INDA.STRIAL AREA SITE NEW CASSEL, NEW YORK | SULTS<br>PPORT<br>NNG<br>A SITE<br>K |                       |                      |                 |                                                                                                          |
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| <br>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A AA-1         | A-1A-01                                    | AIA:02                                                                                                                                             | A.IA-03                              | 1 1                   | N 555 O1             |                 | N-SS-OI                                                                                                  |
|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sample Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1300430-AA-01  | 130043C-IA-01                              | 130043C IA-02                                                                                                                                      | 130043C-1A-03                        | 1300430-55-01         | 130043C-5S-01 DUP    | 130043C.SS 02   | 130043C-55:03                                                                                            |
| Assiste                             | - Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete Complete C | 60 S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FS FS Danifier | FS<br>Produce                              | Post Oscillation                                                                                                                                   | Ш                                    | 100                   | 600                  |                 | 55                                                                                                       |
| EPA Method 1010                     | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Em/m3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | क              | 1.7                                        | ক                                                                                                                                                  | 2.4                                  | 9800 J                | 7500 J               | 980             | 4500                                                                                                     |
| L!!A Method TO13 Triculoroethene    | Trichlaroethere                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ng/m3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | 0.55                                       | C,27                                                                                                                                               | 0.36                                 | 17                    | !<br>  i             | 3.3             | 22                                                                                                       |
| TI'A Melhod TOI                     | 1,1,1-Tikthloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Em/gu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.6310         | 0.67 J                                     | C.55.J                                                                                                                                             | 0.83                                 | 3300 1                | 2330                 | 440             |                                                                                                          |
| EPA Melhod 1010                     | EPA Method 1013 1.1.2.4-100000xxxxxetmane<br>EPA Method 1013 1.1.2-Trichloro-1.2.2 Influoroathane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | mg/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.20           | 120                                        | 120                                                                                                                                                | 1.2 0                                | 3 ¬                   | 2 -                  | 0.88.1          | 120                                                                                                      |
| EPA Melhod YO15                     | EPA Method YO15 1 1.2-Triidiloroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ng/m3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.83 U         | 0.63 U                                     | 0.83 0                                                                                                                                             | 0.83 U                               | 0.83 U                | 0.83 U               |                 | 0.83 U                                                                                                   |
| EPA Method TO1                      | 1,1-Diciyotoethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | S C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0,62 U         | 0.62                                       | C.62 U                                                                                                                                             | 0.62 U                               | 38                    | 14 6                 | 18              | 16                                                                                                       |
| EPA Method TO19                     | 1,2,4-Trichloralsen.vsae                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | S LUMBO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.1            | 1.1 ()                                     | 5 F.1                                                                                                                                              | 1.1                                  |                       | 1.1                  | 1.10            | 0.00                                                                                                     |
| EPA Method 7018                     | 1.2.4-Trinxelty/benzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | norm3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.3            | 1.7                                        | 133                                                                                                                                                | 1.3                                  | 1.3                   |                      |                 | D.65 J                                                                                                   |
| CPA Method TO15                     | EPA Metrod TO19 1,2 Obcompethane<br>EPA Metrod TO19 1.2 Dichlare 1 1 2 2.1et/aftiomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SELECTION OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE | 1,20           | 120                                        | 120                                                                                                                                                | 0 17                                 | 120                   | 1.10                 | 127             | 1.2 U                                                                                                    |
| EPA Method 1016                     | 1.2-Dichlorchenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sulption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                | 0.92 U                                     | 0.9210                                                                                                                                             | 0.92,U                               | 0 %0                  | 0.92 U               | 0.92 Ŭ          | 0.92 U                                                                                                   |
| EPA Method 1018                     | 11,2-Dichloroellume                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | mym3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 0.62 U                                     | 6.62 U                                                                                                                                             | 0.62 U                               | 0.62 U                | 0.62 U               | 1.5             | 0.62 U                                                                                                   |
| EPA Method 1010                     | 1,2-Dichlor opropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | E L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.750          | 0.7 0                                      | 0.78                                                                                                                                               | 0.70                                 | 0.70                  | 0.70                 | 0 2 0 2         | 0.7 🖰                                                                                                    |
| FPA Melhod TO15                     | 1.5.3-Hilled Mochaelta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | C CENTON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.34 []        | 0.00                                       | 0.340                                                                                                                                              | 0.341                                | 0,0                   | 0.34 (1              | 0.750           | 0 0 0                                                                                                    |
| FPA Melhod 101                      | 1,3-Dicido oberzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ew/fin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.92 U         | 0.92 U                                     | 0.92 Ü                                                                                                                                             | 0.92                                 | 0.65                  | 0.92 U               | 0.92 U          | 0.92 U                                                                                                   |
| EPA Melhod TOI.                     | 1 4-Dicularabenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Em/bii                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.92 U         | 0.82                                       | 0.92]U                                                                                                                                             | 0.92)U                               | 0.92 U                | 0.92[U               | 0.86[J          | 0.92 U                                                                                                   |
| CITYA Melhod TOUS                   | 1,4-Dioxane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200 E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 70             | 1.100                                      | 1,1 U.J                                                                                                                                            | 7)<br>                               | 34 7                  | 200                  | 1.1 E           | 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-                                                                   |
| FPA Mellind TOTA                    | 2-Hexanore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.2 U.)        | 1 2 m                                      | 1.2 W                                                                                                                                              | 1.2 UJ                               | 1.2 U.F               | 12 01                | 0.46 J          | 13.5                                                                                                     |
| FPA Melhod FOT                      | 2-Propunol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Singin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                | 2.7                                        | 4.5                                                                                                                                                | 3.8                                  | 44                    | 52.                  | 130             | 40                                                                                                       |
| EPA Method TO15                     | EPA Method TO184-Ehylkoluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.211.1        | 0.75 U                                     | 0.75 U                                                                                                                                             | 0.8                                  | 0.75 U                | 0.75.U               | 0.75 U          |                                                                                                          |
| EPA Welted TO15                     | Acetore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sunger<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.7.           | 22                                         | 1.5                                                                                                                                                | 133                                  | 50.00                 | 23.                  | 25.54           | 30 05                                                                                                    |
| EPA Method TO19 Ally Chayide        | Allylchkyide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5 mgm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.48 U         | 0.48 U                                     | D (学)                                                                                                                                              | 0.48 U                               | 0.48 U                | 0.48 U               | 0.48 U          | D.48 U                                                                                                   |
| EPA Method 1010Benzeing             | Denzeire<br>Perest allereite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Suma<br>Suma<br>Suma<br>Suma<br>Suma<br>Suma<br>Suma<br>Suma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                | 1.2                                        | 1.1                                                                                                                                                | 1.2                                  | 0.62                  | 0.45 5               | - 10            | - ;                                                                                                      |
| TPA Method 1010 Benedictions        | Bromodeddwonethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | e milion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7              | 1.88                                       |                                                                                                                                                    | 110                                  | 1000                  | 7 7                  | 0 0 0           | D = -                                                                                                    |
| L''A Wethod TO15                    | Bromolotm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ewign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | 1.5 10                                     | 1.60                                                                                                                                               | 1.600                                | 1,80                  | 1.6,0                | 1.60            |                                                                                                          |
| EPA Wethod TO15                     | Romomellane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Elaligu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.660          | 0.65.0                                     | 11 65'0                                                                                                                                            | 0.59 U                               | 0.55 U                | 0.550                | 0,59 U          | D.59 U                                                                                                   |
| EPA Wellhod TOTS                    | Carbon ptsumpe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CE1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.477.0        | 7 0 4 7 U                                  | 0.6730                                                                                                                                             | 0,47 U                               | 2.2                   | 22                   | 2.1             | 2;<br>3;<br>3;<br>3;<br>4;<br>1;<br>1;<br>1;<br>1;<br>1;<br>1;<br>1;<br>1;<br>1;<br>1;<br>1;<br>1;<br>1; |
| EPA Method TOTA                     | EPA Melhod TO13 Chickobelizene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EM/Dia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0770           | 0.70                                       | 0.71                                                                                                                                               | 0.70                                 | 0.40                  | 0.7.0                | 0.70            | 0 2 0                                                                                                    |
| EPA Melhod TO15                     | Съзгодогопотнения                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cinton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 130            | 130                                        | 1.3 U                                                                                                                                              | E.3 U                                | 1.3 U                 | 130-1                | 1.3 U           | 1.3 U                                                                                                    |
| EPA Melhod 1014 Cludrowthing        | Civacontaine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Em/pi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.74           | 0.4 [)                                     | 0.40                                                                                                                                               | 0.4 [                                | ું<br><del>ક</del> ાર | 0                    | 0.40            | 040                                                                                                      |
| EPA Melhod TO:                      | Chloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sm/ga                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -              | 0.310                                      | 0.31 U                                                                                                                                             | 15:0                                 | 0.31[U                | <u>0.3</u>           | 0,31 (          | 0.310                                                                                                    |
| EPA Method TO15                     | Cls-1,2.ChcMoroelhene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | £WJ6n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.6 U          | 0,811                                      | 0.6 U                                                                                                                                              | U 9.0                                | 0.6.0                 | 0.6U                 | 0.6 U           | 0,48].1                                                                                                  |
| EPA Melliod TO15                    | Custobavana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E CONTRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | D 690 C        | 0,69,0                                     | 1 80 0<br>1 62 0                                                                                                                                   | D 689 C                              |                       | 0.59                 | 50800           | D 69 C                                                                                                   |
| FPA Method TO15                     | FPA Method TO19Dcharodilluoranchare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Simen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.8            | 0.75/U                                     | 28                                                                                                                                                 | 2.8                                  | 3.7                   | 3.7                  | 2.9             | 0.75(0                                                                                                   |
| EPA Method 7019                     | Einyl acolulu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cuanto<br>Suma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.92 U         | 0.92 0                                     | 0.82 U                                                                                                                                             | 0.92 0                               | D.92 U                | 0.92 U               | 0.92 U          | 0.92 U                                                                                                   |
| EPA Method 1015                     | Ethyl benzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Shring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.56.0         | 0.71                                       | U.622 J                                                                                                                                            | 0.52 J                               | 0.53                  | 0.66 ⊔               | <del>4</del> (4 | D.82 J                                                                                                   |
| EPA Mathod 1018                     | EPA Walked TO 18 Hexachiorobuladiana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2 EMICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.00           | 1,6 V                                      | 19                                                                                                                                                 | 7.67                                 | 1.8 U                 | <br> <br> - 9 <br> - | 1680            | 13.5                                                                                                     |
| EPA Method 1019                     | Hexane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 60,6n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.1            | 3.5                                        | 7.5                                                                                                                                                | 96                                   | 0.54 U                | 0.54 U               | 3.8             |                                                                                                          |
| EPA Method TO19                     | EPA Method TO19 isooclaine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | £ш/dn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.771.0        | 0.71                                       | 0.71                                                                                                                                               | 0.71 U                               | D71 U                 | 0.71]U               | 0.71            | 0.74 (0                                                                                                  |
| FPA Method TO16                     | Wethyl Terlbulyl Ethor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Em/Bn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.55,00        | 0.55 UJ                                    | 0,55 UJ                                                                                                                                            | 0.55 U.                              | 0.55 UJ               | 0.55 U.)             | 0,55 U.J        | 0.55 UJ                                                                                                  |
| EPA Method 1013 Methylene           | EPA Welhod 1011g/wellylene Chonde                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | E CELON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.39           | 0.2611                                     | 0.28 [1]                                                                                                                                           | 0.2811                               | 1.3                   | 0.36()               | 1.8             | 35,0                                                                                                     |
| Link Welhod YOL                     | Slyrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 0.431                                      | 0.69                                                                                                                                               | 0.58 J                               | 0.48 J                | 0,52 J               | 1.1             | 160                                                                                                      |
| I.P.A. Melhod TO! @ Tetrahydrofuran | Tetrahydrofuran                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.45 U.J       | 100                                        | 10                                                                                                                                                 | 57                                   | 0.45 U.               | 0,45 (3)             | 2.4 J           | 045 UJ                                                                                                   |
| EPA Melhod TO14                     | Taluene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | . D2/m3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | t.B]           | 34[                                        | 3.7                                                                                                                                                | 3.4                                  | 4.5                   | 3,9                  | 9.2             | ٦                                                                                                        |

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY STAMMARY REPORT
FEBRUARY 2011 AIR SAMPLING
NEW GASSEL INDUSTRIAL AREA SITE
NEW CASSEL, NEW YORK

|                                          | Location     | A-AA-1          | A-IA-03          | A-IA-02          | A-IA-03          | N-58-01          | 10-88-N            | N-SS-02          | 60-SS-N       |
|------------------------------------------|--------------|-----------------|------------------|------------------|------------------|------------------|--------------------|------------------|---------------|
|                                          | Sanyple Date | 2/1/2011        | 2/1/2011         | 2/1/2011         | 2/1/2011         | 2/1/2011         | 2/1/2011           | 271/2011         | 2/1/2011      |
|                                          | Ol algmeS    | 130043C-AA-01   | 130043C IA D1    | 130043C-IA-02    | 130043C IA-03    | 1300430-55-01    | FULL 10:53-3040061 | 130043C-SS-02    | 130043C-SS-03 |
|                                          | Oc Code      | 53              | F.8              | FS               | FS               | FS               | ] (I≴              | FS               | 82            |
| Analysis Param Name                      | Units        | Result Quarties | Result Cualifier | Result Qualifier | Result Quarifier | Result Qualifier | Tesull Gualiller   | Result Qualifier | Result Quar   |
| PA Method TO15 trans-1,2-Dicatorocthone  | €mgn         | D.8 U           | 0.6 U            | 7.8/U            | 0.6 U            | 0.8 ⊔            | 0.50               | 0.00             | 1000          |
| PA Method 1018 trans-1.3-Dictionopropera | Ethijtin3    | ຶ່ນ[69:0        | 0,69,0           | 0.690            | 0,69,0           | 0.69 U           | 0.69.0             | 0.690            | 0.69.0        |
| EPA Matted TO19 Trichlorofluoronsethane  | Sm/gu        | 2.6             | D.80 U           | 97               | 2.5              | 3.7              | 3.7                | 2.9              | 2.8           |
| EPA Method TO19 Viny acetale             | ng/m3        | 0.54 C          | 0.54 U           | 0.54 (U          | 0.54 (4          | 0.54 U           | 0.56/U             | 0.54[U           | 0.54 U        |
| PA Method 2019 Vinyl brainide            | cm/cm3       | 0.67 U          | 0.67 ()          | 0.67 U           | 0.67.0           | 0.67 U           | 0.67 U             | 0.87 U           | U 59.0        |
| EPA Method TO19 Viny chande              | Lugim3       | 0.1[U           | D.1 U            | 3.1[0]           | 0.1 U            | 0.39 [1          | 0.39]U             | 0.39 <u>U</u>    | D 86.0        |
| SPA Method 7015 Xyleine, m/p             | Lugim3       | 0.98            | 1.4              | 1.4              | 1.3              | 1.4              | 1.3                | 3.4              | 8.1           |
| SPA Method TO15 Xydetve, o               | ngtm3        | 0.49[J          | 0.68             | 0.57 J           | 0.52 J           | 0.44 J           | ] D.66 U           | 1.1              | 0.44          |
| Notes:                                   | i            |                 |                  |                  |                  |                  |                    |                  |               |
| ugind = marogram per cubic meter         |              |                 |                  |                  |                  |                  |                    |                  |               |
| Qualifiers-                              |              |                 |                  |                  |                  |                  |                    |                  |               |
|                                          |              |                 |                  |                  |                  |                  |                    |                  |               |

U = not obserted at the reporting kinit J = vistimated concentration DC code. FS = Fleid Sample, FD = Fleid Duplicate

SUMMARY OF DATAVALIDATION ACTIONS DATA USABILITY SUMMARY REPORT FERRIARY 2011 AIR SAMPLING NEW CASSEL INDUSTRIAL AREA SITE NEW CASSEL, NEW YORK TABLE 3

| Lab de                                                                         | Centek              | Conlet                        | Cente             | Centek          | Centek              | Centek          | Sente           | Selek<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>February<br>Februa | Centek          | Centek          | Sentek          | Centek                        | Centek          | Confek          | Centek          | Cantek          | Cerdak          | Centek          | Centek                        | Centek               | Centek               | Contack              | Centek               | Centek               | Centek               | Centek               | Contek               | Centak                 | Centek                 | Centek                        | Centek                  | Centek                        | Centek                        | Centek                 | Sentek                 | Clarite         | Centek          | Centok          | Centek            | Centek          | Centek          |
|--------------------------------------------------------------------------------|---------------------|-------------------------------|-------------------|-----------------|---------------------|-----------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------|------------------------|-------------------------------|-------------------------|-------------------------------|-------------------------------|------------------------|------------------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|
| Unita                                                                          | ელენი               | бтуви                         | Em/ga             | ug/m3           | Стуби               | Em/ga           | en)(sa          | engim3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | egym3           | ug/m3           | 6uhitin         | ug/m3                         | CID UIO         | ug/m3           | ug/m3           | сшди            | ешувл           | cm/gu           | ug/m3                         | ըա/նո                | сш/вп                | еш/вп                | eu/6n                | ug/m3                | одинз                | ugym3                | ещел                 | ng/m3                  | ugim3                  | стубп                         | стубо                   | ogvin3                        | ng/m3                         | egim3                  | segúm 3                | MO/013          | Sulphin 3       | ug/m3           | Cintago           | u0/m3           | ugim3           |
| Val Reason Code                                                                | 1-51                | 1S-L                          | 1-51              | T-SDT           | ics-r               | TC2-T           | 7-527           | 1-8:31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | T-S21           | 1-801           | 1-801]          | 1-501                         | T-SOT           | CS-L. LCS-RPD   | LCS-L. LCS-RPD  | LCS-L, LCS-RPD  | LCS-L, LCS-RPD  | LCS-L, LCS-RPD  | LCS-L, LCS-RPD                | LCS-L, LCS-RPD       | LCS-L, LCS-RPD       | LCS-t, LCS-RPD       | CS-t, CS-RPD         | LC3-L, LCS-RPD       | LCS-L, LCS-RPO       | CCS-L, LCS-RPD       | CS-L, LCS-3/PD       | LCS-R9D                | LCS-RPD                | ZCS-RPD                       | LCS-RPD                 | LCS-RPD                       | LCS-RPD                       | LCS-RPD                | LCS-RPD                | LCS-RPD         | [LCS-RPD        | LCS-RPD ]       | LCS-RPD 1         | LCS-RPD         | LCS-RPD         |
| dated Result Validation Qualifie                                               | 3,300 J             | € 009'6                       | L(005,7           | 34.5            | 37.3                | 1.2 [1]         | 1.2 UJ          | 1.2 UJ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.2 UJ          | 1.2 UJ          | 12 [1]          | 0.46[J                        | 1.2 UJ          | 1.1[0]          | 1.1 (1)         | 1.1[4.1         | 1,1[1]          | t.1 Üs          | 1.1[0.7                       | 1.2[UJ               | 1.2[U3               | 1.2 U.               | 1.2[UJ]              | 1.2[UJ               | 1.2 UJ               | 4.2 UJ               | 1.9 U.J              | 0.65 0.1               | 0.55]UJ                | 0.55 UJ                       | 0,55,01                 | 0.55 UJ                       | 0.55 UJ                       | 0.55/01                | 0.85 03                | 0.45]UJ         | 3.1             | 0.45 0.0        | 0,45 UJ           | 24.5            | 0.45 U.i        |
| Lab Roswig Lab Qualifier/Validated Result/Validation Qualifiet/Val Reason Code | 3300                | 0086                          | 7500              | 34              | 37                  | 1.2]U           | 1.2 U           | 1.2 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.2 U           | 1.2 U           | 1.20            | 0.48                          | 1.2[0           | 1.1 U           | 1.1[u           | 1,1,0           | 1.10            | 1.10            | 01.1                          | 1.2 U                | 1.2 U                | 1.2 ()               | 1.20                 | 1.20                 | 1.2 [U               | 1.2 U                | 1.2 U                | 0.55 U                 | ∩ 55'o                 | 0.850                         | 0.85 U                  | 0.55 U                        | 0.55 U                        | 0.55 U                 | 0.55 U                 | 0.45 U          | 3.1             | 0.45 U          | 0.45[U            | 2.4             | 0.45 U          |
| pramater Name                                                                  | 1.1-Trichloroethane | Telrachiorpathane             | Tetrachlorosthone | 1,4-Dioxane     | 1,4-Dioxana         | 2-Hoxanone      | 2-Hexanese      | 2-Hexanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2-Hexanone      | 2-Hexanona      | 2-Hexanone      | 2-Hexenone                    | 2-Hexanone      | 1,4-Dioxene     | 1.4-Dioxane     | 1.4-Dioxane     | 4-Dioxare       | 4-Dioxane       | 1,4-Dioxane                   | 4-Methyl-2-pentanoze | 4-Methyl-2-pantanone | 4-Methyl-2-pontanone | 4-Melhyl-2-pentanona | 4-Mathyl-2-pentanone | 4-Mothyl-2-pentanone | 4 Methyl-2-pentanona | 4-Methyl-2-pentanone | Melnyi Tertbutyi Ether | Methyl Tertbubyl Ethor | Methyl Terlbulyl Ether        | Methyl Terthubyl Filher | Mathyl Tertbutyl Ether        | Methyl Tartbutyl Ether        | Wethyl Tertbutyl Ether | Methyl Tertbutyl Ether | Tetrahydrofuran | Tetrahydrofuran | Totrahydrofuran | Tetrahydrofuran   | Tetrahydrofuran | Tetrahydroduran |
| Fleid Sample ID                                                                | 1300430-88-01       | EPA Method TO15 130043C-SS-01 | 130043C-55-01 DUP | 1300430-55-01   | 130043C-55-01 UUP - | 130043C-AA-01   | 130043C-[A-01   | 130043C-1A-02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | •               |                 | 90              |                               | Γ               | Г               | Г               | Γ               | 130043C-IA-03   | 130043C-SS-02   | Г                             | Γ                    | 130043C-IA-01        | 130043C-IA-02        | 130043C-IA-03        | 1300430-88-01        | 30043C-SS-01 DUP     | 30043C-58-02         | 30043C-SS-03         | 30043C-AA-01           |                        |                               |                         |                               | atha                          | 130043C-55-02          | 130043C-SS-03          | 130043C-AA-01   | 130043C-M-01    | 130043C-55-01   | 130043C-5S-01 DUP | 130043C-55-02   | 130043C-SS-03   |
| Analysis Method                                                                | EP'A Method TO15    | EPA Method TO15               | EPA Method TO15   | EPA Method TO15 | EPA Method TO15     | EPA Method TO15 | EPA Method TO15 | EPA Melliod TO15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EPA Melhod 1015 | EPA Method TO15 | EPA Method T015 | EPA Method TO15 130043C-55-02 | EPA Method TO15 | EPA Method T015 | EPA Method TO15 | EPA Method TO15 | EPA Mothod TO15 | EPA Method TO15 | EPA Method T015 1300/3C-SS-03 | EPA Melhod TO15      | EPA Method TO15      | EPA Method TO15      | EPA Method 1015      | EPA Method TO15      | EPA Method TO15      | EPA Method TO15      | EPA Method TO15      | FPA Method TO15        | EPA Method TO15        | EPA Method TO15 130043C-1A-02 | EPA Method TO15         | EPA Method FO15 130043C-SS-01 | EPA Method TO15 130043C-55.01 | EPA Melbod TQ15        | EPA Method TO15        | EPA Mcthod TO15 | EPA Method TO15 | EPA Melhod TQ15 | EPA Method TO15   | EPA Method TO15 | EPA Method TO15 |
| Lab Sample Id                                                                  | C1102015-004A       | C1102015-004A                 |                   | C1102015-004A   |                     |                 |                 | C1102015-008A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | C1102015-003A   | C1102015-004A   | C1102015-005A   | C1102015-007A                 | C1102015-002A   |                 | C1102015-006A   | C1102015-008A   | C1102015-003A   | C1102015-007A   |                               | C1102015-001A        | C1102015 008A        | C1102015-008A        | C1102015-003A        | C1102015 004A        | ı                    | Ι'                   | C1102015-002A        | ı                      | C1102055-006A          | C1102015-008A                 | C1102015-003A           | C1102015-004A                 | C1102015-005A                 | C1102015-007A          | C1102015-002A          | C1102015-001A   | C1102015-006A   | C1102015-004A   | C1102015-005A     | C1102015-007A   | C1102015-002A   |
| SDG                                                                            | C1102015            | C1102015                      | C1102015          | C1102015        | C1102015            | C1102015        | C1102015        | 01102015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C: 102015       | C:102015        | C1102015        | C1102035                      | C1102015        | C1102015        | C1102015        | C1102015        | C1102015        | C1102015        | C1102015                      | C1102015             | C1102015             | _                    | C1102015             | C1102015             | C1102015             | C1102015             | C1102015             | C1102015               | C1102015               | C1102015                      | C1102015                | C1102015                      | C1102015                      | C11020115              | 01102015               | C1102015        | 01102015        | C110Z0115       | C1102015          | C1102015        | C1102015        |

yalidation Qualiflers.
U = result is non-dotocted or qualified as non-detect due to blank contamination
U = result is non-dotocted or qualified as non-detect due to blank contamination
U = result is non-dotocted or governous control in the CS-L = laboration Qualifier Rosson Codes.
LCS-L = laboratory control sample rocovery below control limits
LCS-RPD = LCS-LCSD RPD limit axoseded
IS-L = internal standard response below limit.

|                                 | Sample Delivery Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u> </u>                                    | C1102015             | C1162015                                                                                     | 01132015              | C1102015       | C1102015                | C1102015           | C1102015            | Ciidzois .                                     |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------|----------------------------------------------------------------------------------------------|-----------------------|----------------|-------------------------|--------------------|---------------------|------------------------------------------------|
|                                 | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             | A-A4-1               | N-SS-03                                                                                      | A-K-03                | N-55-01        | N.53.01                 | A IA-D1            | N-SS-02             | A-19-02<br>2-118-01                            |
|                                 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sample 10                                   | 130043C.AA-01        | 130545C-85-03<br>FS                                                                          | 130043C-IA-U3<br>FS   |                | 130043Ç-SS 01 DUP<br>FD | 13043C-IA-91<br>F8 | 130043C-SS-02<br>FS | 130043C-IA-02<br>FS                            |
| Analysis                        | Param Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chille                                      | Result Guarder       | Result Chalifier                                                                             | Result Qualifier      | Result Quadran | Resust Qualifier        | Result Onulifier   | Result Qualifier    | Result Qualifier                               |
| SPA Method TO15                 | Teirachkroothere<br>Trichkroeilere                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100 E                                       | 6.50<br>6.00<br>6.00 | 25<br>25<br>25<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27 | 0.24<br>0.38          | 2000           | >                       | 7.7<br>0.55        | 3.3                 | 0.27                                           |
| EPA Method TO15                 | 1,1,1-Trichloroeithane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ughm3                                       | D.83 U               | 629                                                                                          | 0.43                  |                | 2300                    | 0.67 J             | 440                 |                                                |
| EPA Method TO15                 | 11,1,2,2-Telrachiscoethane<br>1.1.2-Trichisma,1.2Taßioroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             | 120                  | 200                                                                                          | 5 T                   |                | 0.0                     | 2 2 7              | 0.88.0              | 12 - 0                                         |
| EPA Melhod TO15                 | 1,1,2-Yichlorethan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ulliana                                     | 0.83.0               | U 68.0                                                                                       |                       | D.83 U         | 0.83 U                  | 0.830              | n 68'0              |                                                |
| EPA Method TO15                 | 1,1-Dictioncethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 m                                        | 0.62 U               | ± ±                                                                                          | 0.42 0                | 7              | 7 7                     | 0.62.0             | B (5                | 0.62 0                                         |
| EPA Method 1015                 | 1, t-Localionaemente<br>1,2,4-Trichlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | e de la                  | 200                                                                                          |                       | . T.           | 110                     | 110                | -<br>-<br>-         |                                                |
| EPA Method TO 15                | 1,2,4-Trinuelhylbenzena                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ug/m3                                       | 1.3                  | 0.65 J                                                                                       | <u>e</u> :            | 4.5            |                         | 1.7                |                     | E .                                            |
| EPA Method TO15                 | 1,2-Ditromochano                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ug/m3                                       | Ç;                   |                                                                                              | 120                   | - 1.2 · ·      | 1.2 0                   | 0 0                | 7.0                 | 2 -                                            |
| EPA Method T015                 | 1,2-Dichlarobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ug/m3                                       | D.92 U               | 0.92 U                                                                                       | 0.92 U                | 0.92 U         |                         |                    |                     |                                                |
| PPA Melhod TD15                 | 1,2-Dichkroethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ngvin3                                      | 0.62 U               | 0.62 U                                                                                       | 0,62 U                | 0.62 U         | 0.62 U                  | 0.62 t             | ÷ 0                 | 0,62 U                                         |
| EPA Melhod T015 EPA Melhod T015 | 1.2-Denomyropene<br>1.3.5-Trimethytoenzone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Singn<br>Singn                              | 0.75 U               | 0.75 U                                                                                       | 0.65.0                | D.75 LI        | 0.75 U                  | 0.750              |                     | 0.75 U                                         |
| EPA Melhod TO15                 | 1.3-Robatione                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (EUM)                                       | 0.34 U               | 0.34 U                                                                                       | D :                   | 0.34 U         | 0.34 U                  |                    |                     | 7.8                                            |
| EPA Method TO15                 | 1,3-Olchkrobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Upfin3                                      | D 26:0               | 0.92 U                                                                                       | 0.92 U                | 0.92 U         | 0.92 U                  | 6.92 U             | 0.92 0              | 0.92 0                                         |
| EPA Method TO15                 | 1,4-Diocene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50000                                       | \ 3 :-               | 35                                                                                           | \<br>3<br>3<br>3<br>3 | 34.            | 37.7 %                  |                    | 3 1.1               | 1.1                                            |
|                                 | 2-Dutanone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Emign.                                      | - 5                  | 5.2                                                                                          |                       | 2.8            | 2.8                     | 17                 | = <b>5</b>          | 7 3 3                                          |
| EPA Melhod TO15                 | Z-Perminans<br>2-Perminans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 260,80                                      | 3 6                  | 3 9                                                                                          | 1 2 2                 | **             | \<br>! \$3              | 2.7                | 1 25                | i 4<br>j                                       |
| EPA Method TO15                 | 4-Etyholuene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SENGO.                                      | 0,75 U               | 0.55 J                                                                                       | 99                    | 0.75 U         | 0.75 U                  | 0.75 U             | U 57.0              | D 27.0                                         |
| EPA Melhod TO15                 | 4-Methy-2-panianone<br>econom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Elimen.                                     | 7.5 (1)              | 72.00                                                                                        | \<br>3<br>2           | \<br>3. 8.     | \<br>3.62               | 22                 | 2. 3.<br>3. 4.      | 7 m 7:                                         |
| EPA Mathod TO15                 | Aly chiede                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | E E                                         | 0.48 U               | 0.48 17                                                                                      | 0.84.D                | J. 84.0        | 0.46 U                  | 0 43 ∪             | 0,48 U              | D, 48 U                                        |
| EPA Method TO15                 | Benzent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Em/gr                                       | - 6                  | - 0                                                                                          | 23.6                  | 0.62           | Q-45 J                  | 1.2                | 1.1                 | 1.1                                            |
| EPA Method 1015                 | Benzyl rationale<br>Bremodichistossethans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SEMPER SEMPERATE                            | 200                  | \$ T                                                                                         | ) ) =<br>-            | <b>→</b>       |                         |                    | 7                   |                                                |
| EPA Method TO 15                | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Em/gii                                      | 1.6 4                | 1.6 U                                                                                        | 1.6 U                 | 1.6 U          | 1.6 U                   | 1.6.0              | 1.6 U               |                                                |
| EPA Melbod TO15                 | Bromomethane<br>Carbon disurities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Simon<br>Simon                              | ) D E T              |                                                                                              | 0.47 (                | 2.2            | 2.2                     |                    | 2.1                 | 0.47                                           |
| EPA Method T015                 | Carbon leuschlodde                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | £ E                                         | 1 5 T                | O.BG U                                                                                       | 0.51                  | 0.96.0         | 1 98 ¢                  |                    | 0.98 G              | 1970                                           |
| EPA Method (O15                 | Chlorobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | egga<br>Egga                                | 2.5                  | 0.50<br>0.50<br>0.50                                                                         | 13 C                  | 0.7.0          | 0.40                    | 0.60               | ) D                 | 2000                                           |
| EPA Melhod TO15                 | Chorocitane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Emgn<br>Swa                                 | 0.4 L                | 0.4 U                                                                                        | D \$0                 | 2.4.0          | . 0 40                  |                    | 0.40                |                                                |
| EPA Method 7015                 | Chlorodorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | e mon                                       | 0.74 (;              | 1.5 4                                                                                        | 7.00                  | 2.2            | 0.32                    | 0.74 U             | 0.31                | 0.74 C                                         |
| EPA:Wethod 1015                 | Cis-1,2-Cichloraphene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | e Guyan                                     | 0.6 U                | 0,48 J                                                                                       | 0.6 U                 | 0.60           |                         | 0.00               | 0.6.0               | U.6.U                                          |
| EPA Method 1015                 | cls:1,3-Dichloropropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cm/gir                                      | D 600                | J 58 0                                                                                       | D 200 C               | 3 000          | 0.88,0                  | 0.69 U             | 0.69 C              | 0.69 U                                         |
| (EPA Method TO15                | Dichlar of Russian et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an et an | SEM SE                                      | 3 88.75              | D.75 U                                                                                       | 28                    | 3.7            | 37                      | 0.75 U             | 2.9                 |                                                |
| EPA Method TO15                 | Ethyl accepte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Emhgu<br>Filin                              | 0.92 U               | 0.92 U                                                                                       | 7 60                  | 0.52.0         | 0.92 U                  | 0.92 U             | 0.92 U              | 0 92 C                                         |
| FPA Meriod 1015                 | Elity Menzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             | 0.00                 | C 86.7                                                                                       | 0.30                  | -              | 9-                      | 0,93               | £ 6.2               | 0.54.3                                         |
| EPA Method TO15                 | Hexacticotuladiene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Miltra<br>Bulling                           | 1.6.0                | 1.6 U                                                                                        | 1.6 0                 |                |                         | 1.6 🗆              | 1.5 U               | 1.6 U                                          |
| EPA Method TO15                 | Hexane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20,000                                      | 2.1.5                | 17.0                                                                                         | 9 7                   | 27.0           | 7 F. O                  | 0.7.0              | 0.710               | 0.71 C                                         |
| EPA Method TO15                 | Methyl Terbutyl Ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | riffyug                                     | . A. S. G.           |                                                                                              | / m st 0              |                |                         |                    | 0.55 UJ /           | 0.55 (U)                                       |
| EPA Method TO15                 | Methylene chiloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | emon.                                       | 1 860                | 5.0                                                                                          | 44                    | £.50           | 7 7                     | 13                 | 1.8                 | 5.5                                            |
| EPA Method TO15                 | Shreve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             | 0.65.0               | 0.81                                                                                         | 0.56                  | 0.46           | 0.52                    | 0.43 J             | 11                  | 0.69                                           |
| EPA Method TO15                 | Yeirehydrothann                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Shirt.                                      |                      | 0.45 UU                                                                                      | ٠, ٩                  | N 250          | V 10.85 U.              | \<br>              | 4.0<br>7.           | 18                                             |
| EPA Method 1015                 | Toluene<br>Frans. 5.2-Dichksoethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ug/ms                                       | 0.6 U                |                                                                                              | 0.90<br>0.00          | 0.90           | 0.6 U                   | 0.8.D              | 0.6 U               | ) o                                            |
| EPA Mol 100 1015                | Ingres-1,3-Dichlosopropene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Er/g                                        |                      | 0.60 U                                                                                       | 0.690                 | → 69 ¢         | 0.69.0                  | U 59'0             | 0.69 U              | D 69:0                                         |
| CPA MeProd TO15                 | Trichiorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluorofluoroflu |                                             | 2.50                 |                                                                                              | 250                   | 37.0           | 0.54<br>U 140           | 28.0               | 0.54 U              | 0.54 U                                         |
| EPA Melhad T015                 | Vivy Ironide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5m/ga                                       | 0.67.0               | U 59'0                                                                                       | U 78.0                | 0.67 U         |                         |                    | 0,67 U              | ח 29'0                                         |
| EPA Method 1015                 | Vayl chande                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ug/m3                                       |                      | 0.39 U                                                                                       | 5<br>5<br>5           | O 520          | U 68.0                  | 0.10               | D 96.0              | 5                                              |
|                                 | Xylene, nap<br>Xylene, o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ull/lus                                     | 0.49 J               | 0.44                                                                                         | 062.0                 | 0.44           | 0.86 U                  | D.66               | +: + · · ·          | 0.57 J                                         |
| 1                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                      |                                                                                              |                       |                |                         | 17.                | · .                 |                                                |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                      |                                                                                              | Page 1 of 1           |                |                         | 2                  | ,                   |                                                |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                      |                                                                                              |                       |                |                         |                    | 1                   | )<br>}<br>}<br>}<br>}<br>}<br>}<br>}<br>}<br>} |
|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                      |                                                                                              |                       |                |                         |                    | 7                   | ,                                              |

### Centek Laboratories, LLC

Date: 16-Feb-11

CLIENT: MACTEC Engineering and Consulting, Inc.

Client Sample ID: 130043C-AA-01

Lab Order:

C1102015

Tag Number: 286,268

Project:

NCIA New Castle

Collection Date: 2/1/2011

Lab ID: C1102015-001A

Matrix: AlR

| Analyses                      | Result             | **Limit Qua       | al Units          | DF | Date Analyzed       |
|-------------------------------|--------------------|-------------------|-------------------|----|---------------------|
| TUG/M3 W/ 9,25UG/M3 CT-TCE-VC |                    | TO-15             |                   |    | Analyst: RJI        |
| 1,1,1-Trichloroethane         | < 0.83             | 0.83              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,1,2,2-Tetrachtoroethane     | < 1.0              | 1,0               | vg/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,1,2-Trichtoroethane         | < 0.83             | 0.83              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,1-Dichtoroethane            | < 0.62             | 0.62              | ഗൂ/ന3             | 1  | 2/8/2011 9:52:00 PM |
| 1,1-Dichtoroethene            | < 0.60             | 0. <del>6</del> 0 | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,2,4-Trichtorobenzene        | < 1.1              | 1.1               | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,2,4-Trimethylbenzene        | 1.3                | 0.75              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,2-Dibromoethane             | < 1.2              | 1.2               | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1.2-Diuhtorobenzene           | < 0.92             | 0.92              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1.2-Dichloroethane            | < 0.62             | 0.62              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,2-Dichloropropane           | < 0.70             | 0.70              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,3,5-Trimethylbenzene        | < 0.75             | 0.75              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,3-butadiene                 | < 0.34             | 0.34              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,3-Dichlorobenzene           | < 0.92             | 0.92              | <i>ს</i> უ/m3     | 1  | 2/8/2011 9:52:00 PM |
| 1,4-Dichlorobenzene           | < 0.92             | 0.92              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 1,4-Dioxane                   | < 1.1 💭            | 1.1               | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| 2,2,4-frimethylpontane        | < 0.71             | 0.71              | աց/m3             | 1  | 2/8/2011 9:52:00 PM |
| 4-ethyllotuene                | < 0.75             | 0.75              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Acetorie                      | 7.7                | 7.2               | (eg/m3            | 10 | 2/9/2011 6:08:00 PM |
| Allyl chloride                | < 0.48             | 0.48              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Benzene                       | 1.0                | 0.49              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Benzyl chloride               | < 0.88             | 0.88              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Bromodichloromethane          | < 1.0              | 1.0               | ug/m3             | 1  | 2/8/2011 9:52.00 PM |
| Bremeform                     | < 1.6              | 1.6               | ug/m3             | 1  | 2/6/2011 9:52.00 PM |
| Bromomethane                  | < 0.59             | 0.59              | ug/m3             | 1  | 2/8/2011 9:52.00 PM |
| Carbon disulfida              | < 0.47             | 0.47              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Carbon tetrachloride          | 0.58               | 0.26              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Chlorobenzene                 | < 0.70             | 0.70              | ug/m3             | 1  | 2/9/2011 9:52:00 PM |
| Chloroethane                  | < 0.40             | 0.40              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Chloroform                    | < 0.74             | 0.74              | <del>სე</del> /m3 | 1  | 2/8/2011 9:52:00 PM |
| Chloromethane                 | 1.0                | 0.31              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| cis-1,2-Dichloroethene        | < 0.60             | 0.60              | vg/m3             | 1  | 2/8/2011 9:52:00 PM |
| cis-1,3-Dichloropropene       | < 0. <del>69</del> | 0.69              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Cyclohexane                   | < 0.52             | 0.52              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Dinromochloromothane          | < 1.3              | 1.3               | ug/m3             | 1  | 2/8/2011 9 52:00 PM |
| Ethyl acetate                 | < 0.92             | 0.92              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Ethylbenzene                  | < 0.65             | 0.06              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Freon 11                      | 26                 | 0.86              | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Freon 113                     | < 12               | 1.2               | ug/m3             | 1  | 2/8/2011 9:52:00 PM |
| Freon 114                     | < 1.1              | 1.1               | ug/m3             | 1  | 2/8/2011 9:52:00 PM |

Qualifiers:

- ** Reporting Limit
- B. Analyte detected in the associated Method Blank.
- H Holding times for properation or analysis exceeded
- JN Non-routine analyte Quantitation estimated
- S Spike Recovery outside accepted recovery limits

Results reported are not blank corrected

- E. Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Page 1 of 16

### Centek Laboratories, LLC

Date: 16-Feb-11

CLIENT: MACTEC Engineering and Consulting, Inc.

Client Sample ID: 130043C-AA-01

Lab Order:

C1102015

204.260

Project:

NCIA New Castle

Tag Number: 286,268 Collection Date: 2/1/2011

Lab 10:

C1102015-001A

Matrix: AIR

| Analyses                      | Result   | **Limit Q | ual Units      | DF | Oate Analyzed       |
|-------------------------------|----------|-----------|----------------|----|---------------------|
| 1UG/M3 W/ 0.25UG/M3 CT-TCE-VC |          | TO-16     | ;              |    | Analyst: RJF        |
| Freon 12                      | 2.8      | 0.75      | ացնուն         | 1  | 2/8/2011 9:52:00 PM |
| Heplane .                     | 4.2      | 0.62      | மழ/m3          | 1  | 2/8/2011 9:52:00 PM |
| Hexachitoro-1,3-butadiene     | < 1.6    | 1.6       | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Hexane                        | 1.1      | 0.54      | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Isopropyl alcehol             | 3.3      | 0.37      | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| m&p-Xylene                    | 0.93     | 1.3       | J ug/m3        | 1  | 2/8/2011 9:52:00 PM |
| Methyl Butyl Kelone           | < 1.2 J̃ | 1.2       | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Melityl Ethyl Ketone          | 1.0      | 0.90      | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Methyl Isobutyl Ketone        | < 1.2 Ĵ  | 1.2       | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Methyl text-buly) ether       | < 0.55 J | 0.55      | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Mathylene chlande             | 0.39     | 0.53      | J ug/m3        | 1  | 2/8/2011 9:52:00 PM |
| o-Xylena                      | 0.49     | 99.0      | J ug/m3        | 1  | 2/8/2011 9:52:00 PM |
| Propylene                     | < 0.26   | 0.26      | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Styrene                       | < 0.65   | 0.65      | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Tetrachioroethylene           | 7.8      | 1.0       | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Tetrahydroluran               | °0.45 ش  | 0.45      | ug/m3          | 1  | 2/8/2011 9:52:00 PM |
| Toluene                       | 1.8      | 0.57      | ივ/ო3          | 1  | 2/8/2011 9:52:00 PM |
| trans-1,2-Dichloroethene      | < 0.60   | 0.60      | υ <b>უ/m</b> 3 | 1  | 2/8/2011 9:52:00 PM |
| trans-1,3-Dichloropropene     | < 0.69   | 0.69      | ഗ്യ/ന3         | 1  | 2/8/2011 9:52,00 PM |
| Trichloroethene               | 0.33     | 0.22      | ഗ്മ/ന <b>ാ</b> | 1  | 2/8/2011 9:52:00 PM |
| Vinyi acetale                 | < 0.54   | 0.54      | սց/m3          | 1  | 2/8/2011 9:52:00 PM |
| Viny: Bromide                 | < 0.67   | 0.67      | Cm\gu          | 1  | 2/8/2011 9:52:00 PM |
| Vinyi chioride                | < 0.10   | 0.10      | Lig/m3         | 1  | 2/8/2011 9:52:00 PM |

### Qualifiers:

- Reporting Limit
- B Analyte desected in the associated Method Blank
- 11 Holding times for preparation or analysis exceeded.
- JN Non-routine analyte. Quantitation estimated
- S Spike Recovery outside recopied recovery limits
- Results reported are not blank corrected
- E Value above quantitation range
- J. Analyte detected at or below quantitation limits.
- ND Not Detected at the Reporting Limit.

Page 2 of 16

| · :erafilian                                                                         | նանվ <u>բանուգ</u> ոց 🔭 |                    |              |      | popedas sijnsog          | ध्यद्य १००१ (मृष्टिय | <b>bodomnoo</b> sh                           |
|--------------------------------------------------------------------------------------|-------------------------|--------------------|--------------|------|--------------------------|----------------------|----------------------------------------------|
| +   L GOD 1   +                                                                      |                         |                    | 1°1          |      | 5n/ <b>Q</b> u           | ı                    | MA 00:00:S1 1105/6/S                         |
| 511 (10917<br>511 (10917                                                             |                         | 2.1 >              | 2,1          |      | ელ/ <b>ნ</b> ი           | i                    | MA 00:30:S1 1:05/0/S                         |
| Freon 11<br>Freon 113                                                                |                         | 8.2                | 98.0         |      | em/60                    | ·                    | NA 00:00:01 12:06:00 AM                      |
| euezuagiáuja<br>Jir doesa                                                            |                         | 29.0               | 99.0         | ſ    | guy6n                    | i                    | MA 00:30:51 11:05:015                        |
| Elityl soetstee                                                                      |                         |                    | 0.92         | ,    | £m/gu<br>€m/cu           |                      | MA 00-80:S1 1105/8\S                         |
|                                                                                      | ount of                 | 26 0 >             |              |      | ն <b>ահըս</b>            |                      | MA 00 30:S1 110S/8/S                         |
| пурі білі і осуу білі і осуу білі і осуу<br>од осуу осуу осуу осуу осуу осуу осуу ос | ent of other            | 5.1 >              | 1.3          |      | ն <b>ունս</b><br>քան     | Ļ                    |                                              |
| cis-1,3-Dichlorop<br>Cyclotraxane                                                    | aundoud                 | < 0.23             | 29'0         |      | Emigu<br>Eminu           |                      | MA 00.80:S1 1105/6/S<br>MA 00.80:S1 1105/6/S |
|                                                                                      |                         | 69.0 >             | 69'0         | r    | ഉയ്യർഗ                   | ļ                    | MA 00:30:S1 1105/8/S                         |
| enalmentenance<br>enalmei (II-Sio                                                    |                         | 84.0               | 09/0         | 1    |                          | ŀ                    |                                              |
| Эпепратителя                                                                         |                         | 16.0 >             | 18.0         |      | <u> ըս</u> տեր<br>ըստեր  | ŀ                    | MA 00:00:21 1105/6/S                         |
| Сијонојони                                                                           |                         | 1.5                | 44.0         |      |                          | Ļ                    | MA 00:00:21 1105/6/S                         |
| Shkoroethane                                                                         |                         | 04.0 >             | 01.0         |      | දියා/ණ                   | ا                    | MA 00:00-11 1105/6/S                         |
| ე <b>სებითე</b> ნის განა                                                             |                         | 02'0 >             | 07.0         |      | gw/tin                   |                      | MA 00:00 ST 1105/8/S                         |
| Catbon <b>(e</b> ttachte                                                             |                         | 96'0 >             | 96'0         |      | ູ ຄຸນ/ຄົກ<br>            |                      | MA 00:30:S1 1105/8\\$                        |
| <b>ebili</b> velb nodisc                                                             |                         | 6';                | 74.0         |      | gm/gu                    |                      | MA 00:30;S1 1102/6\S                         |
| Stomomethane                                                                         |                         | <del>6</del> 9'0 > | 69 0         |      | Cm\gu                    | t                    | MA 00:30:\$1 110\$\@\&                       |
| molomoiS                                                                             |                         | 3,1 >              | 91           |      | £m\gu                    | ļ.                   | MA 00:80:S1 110S/0\S                         |
| moroldaibomor8                                                                       | ensilva                 | 0.1 >              | 01           |      | չm/gv                    | ŧ.                   | MA 00:80:S1 110S/6\S                         |
| Senzyl chloride                                                                      |                         | 88.0 >             | 88.0         |      | Sm/gu                    | l.                   | MA 00:30:S1 110S/6/S                         |
| enstre6                                                                              |                         | 0.1                | 6Þ.0         |      | გლ/ნი                    | ŀ                    | MA 00:30:S1 1/05/6/S                         |
| etino!do lyll ^a                                                           |                         | 84.0 >             | 8P.0         |      | ູ ເພ/ຣັກ                 | ŀ                    | MA 00:30:S1 1105/9/S                         |
| 9notec. ⁴                                                                 |                         | 69                 | 2.5          |      | ടുയ്യർവ                  | 01                   | MS 00:31:8:1103/0/2                          |
| ethyitoluene                                                                         |                         | <del>99</del> '0   | 92'0         | ſ    | £m\gu                    | ι                    | MA 00.80(S1 110S)9\square                    |
| 9q <b>lydsymnJ-4,</b> 2,5                                                            | entane                  | 14'0>              | 12'0         |      | £m\gu                    | ı                    | MA 00.80:S1 1105/6\scrip                     |
| enexolG-P, I                                                                         |                         | ፫ 11 ≻             | UL.          |      | <b>Б</b> m\gu            | ı                    | MA 00.60:S1 110S/6/S                         |
| medonotralO-A, t                                                                     | 9002                    | < 0.92             | 26'0         |      | ខ្ <b>ឃ/</b> បិរា        | ı                    | MA 00:00:S1 110S/6\S                         |
| medonatraid-8, t                                                                     | ∂ugzi                   | < 0.92             | 26.0         |      | ຕພ <i>າ</i> ຣັກ          | ı                    | MA 00:00:S1 110S/6/S                         |
| enetbshud-6,1                                                                        |                         | <b>⊳</b> €.0 >     | <b>7</b> 8'0 |      | Ew/Bn                    | 1                    | MA 00:80:S1 110S/6\S                         |
| dlydlemirT-8,8,1                                                                     | anazua(                 | S7.0 >             | 92'0         |      | <b>6</b> /m/ <b>g</b> tu | ı                    | 2/9/2011 12:06:00 AM                         |
| qerqeroldəiC-S, i                                                                    | ened                    | < 0.70             | 04'0         |      | £wy6n                    | l                    | NA 00:00:S1 1105/8/S                         |
| ardeovolripiO-S, I                                                                   | BUE                     | S9'0 >             | 29.0         |      | guyan                    | l.                   | MA 00:30:\$1 1105/9\\$                       |
| medoroldoiO-S, i                                                                     | 9497                    | S6:0 >             | 26.0         |      | Sm/gu                    | Į.                   | MA 00:80:S1 1103/6/S                         |
| srtleomotdiO-S, i                                                                    | 946                     | 2.1 >              | 1.2          |      | EsnAgu                   | Į.                   | MA 00:80:51 1102/6/2                         |
| diyilləminT-4,5,1                                                                    | əuəzuəd                 | 99'0               | 92'0         | Γ    | ջաչեռ                    | t                    | MA 00:80:21 1102/8/S                         |
| i,ζ.4-Tαcβloxαbe                                                                     | <b>ƏUƏ</b> Z <b>UƏ</b>  | 11>                | l'I          |      | Cm\gu                    | Į.                   | MA 00;00:S1 110S/0/S                         |
| artisonoldolO-1,i                                                                    | 3(4                     | 09:0 >             | 090          |      | <b>ն</b> աչքո            | Į.                   | MA 00:60:S1 1105/6/S                         |
| ertheonoldbi Q-I, i                                                                  | 9U6                     | 18                 | Z 9          |      | გლემი                    | 40                   | 2/3/2011 8:17:00 PM                          |
| i <mark>-2.f.</mark> frichtoroet                                                     | ծսբա                    | £8-0 >             | 0.83         |      | ვიტზი                    | l.                   | MA 00:30:S1 1105/6/S                         |
| ifr).2,2-Tebach!u                                                                    |                         | 0.1 >              | 0.7          |      | ვიუნი                    | Ł                    | MA 00:30:S1 1105/6/S                         |
| ao toleoin T∙f,f,l                                                                   |                         | 098                | 018          |      | <b>ვ</b> ⴍ/ნი            | 6ZZ                  | Z/11/Z011 8:31-00 bW                         |
| IC/W3 BX WE                                                                          | SNOT GOHT               |                    |              | 42   |                          |                      | <b>₹LA</b> UaylenA                           |
| nalyses                                                                              |                         | Result             | limi.l**     | IsuQ | stinU                    | DŁ                   | Davylen A 1180                               |
| :al છ                                                                                | C1102015-002A           | -                  |              |      | :xirtsM                  | УП∀                  | <del></del> -·                               |
| :Dajo                                                                                | NCIA New Castle         |                    |              |      |                          |                      |                                              |
|                                                                                      |                         |                    |              |      | Collection Date:         |                      |                                              |
| rashrO dr                                                                            | G1102015                |                    |              |      | Tag Number:              |                      |                                              |
| FIERL:                                                                               | MACTRC Engineerin       |                    |              |      | lient Samble ID:         |                      |                                              |

S — Spiles Recovery outside accopated recovery limits

bebeenes zizytens to noitersquip of sector grabfoli. H

B. Analyte detected in the associated Method Black

M — Mon-mattine smalyte. Quantitation estimated.



91 lo 6 sgc^Q

Mail Limit Detected at the Reporting Limit

 $\nu_{\rm B}(m)$  notable energy events such Y  $\sim 34$ 

Analyse detected at or below quantitation limits

Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Lab Order:

C1102015

Project:

NCIA New Castle

Lab ID:

C1102015-002A

Client Sample ID: 130043C-SS-03

Tag Number: 362,110

Collection Date: 2/1/2011

Matrix: AIR

| Analyses                  | Result   | **Limit | Qual | Unita         | DF  | Date Analyzed        |
|---------------------------|----------|---------|------|---------------|-----|----------------------|
| 1UG/M3 BY METHOD TO15     |          | то      | -15  |               |     | Analyst: RJP         |
| Freen 12                  | < 0.75   | 0.75    |      | υg/m3         | 1   | 2/0/2011 12:09:00 AM |
| Reptane                   | 1.8      | 0.62    |      | <i>სუ/</i> m3 | 1   | 2/9/2011 12:09:00 AM |
| Hexachtoro-1,3-butadiene  | < 1.6    | 16      |      | ug/m3         | 1   | 2/9/2011 12:08:00 AM |
| Hexane                    | 1.0      | 0.54    |      | Ug/m3         | 1   | 2/9/2011 12:08:00 AM |
| Isopropyl alcohol         | 40       | 3.7     |      | og/m3         | 10  | 2/9/2011 8:17:00 PM  |
| m&p-Xylene                | 1.9      | 1.3     |      | ug/m3         | 1   | 2/0/2011 12:06:00 AM |
| Methyl Butyl Kelone       | < 1.2 J  | 1.2     |      | ഗ്യ/ന3        | 1   | 2/9/2011 12:06:00 AM |
| Methyl Ethyl Kelone       | 5.2      | 0.90    |      | ug/m3         | 1   | 2/9/2011 12:06:00 AM |
| Melityl (sobuly) Ketone   | < 1.2 5  | 1.2     |      | ug/m3         | 1   | 2/9/2011 12:06:00 AM |
| Methyl text-bulyl ether   | < 0.55 J | 0.55    |      | ug/m3         | 1   | 2/9/2011 12:06:00 AM |
| Methylene chloride        | 0.58     | 0.53    |      | ug/m3         | 1   | 2/9/2011 12:06:00 AM |
| о-Хуŧеле                  | 0.44     | 0.66    | J    | ug/m3         | 1   | 2/9/2011 12:06:00 AM |
| Propyiene                 | < 0.26   | 0.26    |      | ug/m3         | 1   | 2/9/2011 12 06:00 AM |
| Styrene                   | 0 91     | 0.65    |      | ug/m3         | 1   | 2/9/2011 12,06 00 AM |
| Tetrachioroethylene       | 4600     | 760     |      | ug/m3         | 729 | 2/11/2011 8.31:00 PM |
| Telrahydrofuran           | < 0.45 J | 0.45    |      | ug/m3         | 1   | 2/0/2011 12:08:00 AM |
| Tolucne                   | 6.0      | 0.57    |      | ug/m3         | 1   | 2/9/2011 12:06:00 AM |
| trans-1,2-Dichloroetnene  | < 0.60   | 0.60    |      | ug/m3         | 1   | 2/9/2011 12:06:00 AM |
| trans-1,3-Dichloropropene | < 0.69   | 0.69    |      | ug/m3         | 1   | 2/9/2011 12:06:00 AM |
| Trichloroethene           | 22       | 8.2     |      | ug/m3         | 10  | 2/9/2011 8:17:00 PM  |
| Vinyl acetate             | < 0.54   | 0.54    |      | ug/m3         | 1   | 2/0/2011 12:08:00 AM |
| Vinyl Bromide             | < 0.67   | 0.67    |      | ug/m3         | 1   | 2/9/2011 12:09:00 AM |
| Vinyt chloride            | < 0.39   | 0.39    |      | ug/m3         | 1   | 2/9/2011 12:09:00 AM |

#### Qualifiers:

- B Analyte detected in the assurated Method Plank
- 11 Holding times for preparation or analysis exceeded
- Non-routine analyte. Quantitation estimated
- Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected.
- E Value above quantitation range
- Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT: MACTEC Engineering and Consulting, Inc.

Lab Order: C1102015

NCIA New Castle Project:

C1102015-003A Lab 10:

Client Sample 10: 130043C-IA-03

Tag Number: 248,439 Collection Date: 2/1/2011

Matrix: AlR

| Analyses                      | Residt  | **Limit | Qual       | Units              | DF | Date Analyzed        |
|-------------------------------|---------|---------|------------|--------------------|----|----------------------|
| 1UG/M3 W/ 0.25UG/M3 CT-TCE-VC |         | TC      | <u>-15</u> |                    |    | Analyst: RJP         |
| 1,1,1-Trichloroethene         | 0.83    | 0.83    |            | Em/ga              | 1  | 2/8/2011 10:25:00 PM |
| 1,1,2,2-Tetrachloroethane     | < 1.0   | 1.0     |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 1,1,2-Trichloroethane         | < 0.83  | 0.83    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 1,1-Dichloroethane            | < 0.62  | 0.62    |            | ւացորո3            | 1  | 2/8/2011 10:25:00 PM |
| 1,1-Dichloroethene            | < 0.60  | 0.60    |            | այրան              | 1  | 2/8/2011 10:25:00 PM |
| 1,2,4-Trichlorobenzene        | < 1.1   | 1.1     |            | ացվուՅ             | 1  | 2/8/2011 10:25:00 PM |
| 1,2,4-Tranethylbenzene        | 1.3     | 0.75    |            | ացվուՅ             | 1  | 2/8/2011 10:25:00 PM |
| 1,2-Dibremoethana             | < 1.2   | 1.2     |            | աց/m3              | 1  | 2/8/2011 10:25:00 PM |
| 1,2-Drohlorobenzene           | < 0.92  | 0.92    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 1,2-Dichloroethana            | < 0.62  | 0.62    |            | <b>սը</b> /լու3    | 1  | 2/8/2011 10 25:00 PM |
| 1,2-Dichloropropane           | < 0.70  | 0.70    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 1,3,5-Trimethylbenzene        | 0.65    | 0.75    | J          | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 1,3-butadiene                 | < 0.34  | 0.34    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 1,3-Dichlorobenzene           | < 0.92  | 0.92    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 1,4-Dichlorobenzene           | < 0.92  | 0.92    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 1,4-Dioxane                   | < 1.1 5 | 1.1     |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 2,2,4-trimethylpenlane        | < 0.71  | 0.71    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| 4-othyltotuene                | 0.80    | 0.75    |            | υ <del>ე/m</del> 3 | 1  | 2/8/2011 10:25:00 PM |
| Acetone                       | 63      | 7.2     |            | ug/m3              | 10 | 2/9/2011 6:40:00 PM  |
| Aliyi chrodae                 | < 0.48  | 0.48    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| Benzene                       | 1,2     | 0.49    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| Benzyl chloride               | < 0.88  | 88.0    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| Bromodichloromethane          | < 1.0   | 1.0     |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| Bromoform                     | < 1.6   | 1.6     |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| Bromomethane                  | < 0.59  | 0.59    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| Carbon disuifide              | < 0.47  | 0.47    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| Carbon tetrachtorido          | 0.51    | 0 25    |            | սց/m3              | 1  | 2/8/2011 10:25:00 PM |
| Chlorobenzene                 | < 0.70  | 0.70    |            | սց/m3              | 1  | 2/8/2011 10 25:00 PM |
| Chloroethane                  | < 0.40  | 0 40    |            | ացմու3             | 1  | 2/8/2011 10:25:00 PM |
| Chloroform                    | < 0.74  | 0.74    |            | Lg/m3              | 1  | 2/8/2011 10:25:00 PM |
| Chloromethane                 | 0.94    | 0.31    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| cis-1,2-Dichloroethene        | < 0.60  | 0.60    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| cis-1,3-Dichtoropropene       | < 0.69  | 0.69    |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |
| Cyclohexane                   | < 0.52  | 0.52    |            | աց/m3              | 1  | 2/8/2011 10:25:00 PM |
| Dibromachioromethane          | < 1.3   | 1.3     |            | ացքու3             | 1  | 2/8/2011 10:25:00 PM |
| Ethyl acetate                 | < 0.92  | 0.92    |            | աց/m3              | 1  | 2/8/2011 10:25:00 PM |
| Ethylbenzene                  | 0.62    | 0.60    | J          | <b>ս</b> ց/m3      | 1  | 2/8/2011 10:25:00 PM |
| Freen 11                      | 25      | 0.86    |            | աց/m3              | í  | 2/8/2011 10:25:00 PM |
| Freen 113                     | < 1.2   | 1.2     |            | աց/m3              | í  | 2/8/2011 10:25:00 PM |
| Freen *14                     | < 1.1   | 1.1     |            | ug/m3              | 1  | 2/8/2011 10:25:00 PM |

Qualifiers:

- Reporting Limit
- Analyte detected in the associated Method Black.
- #1 Holding times for proparation or analysis exceeded
- JN Non-regaine analyte Quantitation estimated
- Styles Recovery outside accepted recovery limits
- Results reported are not blank encreased
- Value above quantitation range E
- Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Client Sample ID: 130043C-IA-03

Lab Order:

C1102015

Project:

Tag Number: 248,439 Collection Date: 2/1/2011

Lab ID:

NCIA New Castle

Matrix: AIR C1102015-003A

| Analyses                      | Result   | ^*Limit | Qual | Dnita        | DF | Date Analyzed        |
|-------------------------------|----------|---------|------|--------------|----|----------------------|
| 1UG/M3 W/ 0.250G/M3 CT-TCE-VC |          | τα      | -15  |              |    | Analyst: RJP         |
| Freon 12                      | 2.8      | 0.75    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Heplane                       | 0.79     | 0.62    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Hexachtoro-1,3-butadiene      | < 1.6    | 1.6     |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Hexane                        | 3.8      | 5.4     |      | ug/m3        | 10 | 2/9/2011 6:40:00 PM  |
| Isopropyl alcohol             | 3.8      | 0.37    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| m&p-Xylene                    | 1.3      | 1.3     |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Methyl Butyl Ketone           | < 1.2 J  | 1.2     |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Methyl Ethyl Ketone           | 47       | 9.0     |      | ug/m3        | 10 | 2/9/2011 6:40:00 PM  |
| Melhyl Isobutyl Ketone        | < 1.2.5  | 1.2     |      | <b>ug/m3</b> | 1  | 2/8/2011 10:25:00 PM |
| Methyl tert-butyl ether       | < 0.55 J | 0.55    |      | Ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Methylene chloride            | 4.4      | 0.53    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| a-Xylene                      | 0.62     | 0.60    | J    | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Propylene                     | < 0.26   | 0.26    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Styrena                       | 0.58     | 0.65    | J    | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Tetrachioroethytene           | 2.4      | 1.0     |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Tetrahydrofuran               | 15       | 4.5     |      | ug/m3        | 10 | 2/9/2011 6:40:00 PM  |
| Toluene                       | 3.4      | 0.57    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| trans-1,2-Dichloroethene      | < 0.60   | 0.60    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| trans-1,3-Dichloropropene     | < 0.69   | 0.69    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Trichtoroethene               | 0.38     | 0.22    |      | ug/m3        | 1  | 2/B/2011 10.25:00 PM |
| Virry! acetate                | < 0.54   | 0.54    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |
| Vinyl Bromide                 | < 0.67   | 0.67    |      | ug/m3        | í  | 2/8/2011 10:25:00 PM |
| Vinyl chloride                | < 0.10   | 0.10    |      | ug/m3        | 1  | 2/8/2011 10:25:00 PM |

|     |    | _    |  |
|-----|----|------|--|
| Ou# | Ĺί | li e |  |
| *   |    |      |  |

- Reporting Limit
- В Analyte detected in the associated Method Birnk.
- Holding times for preparation or analysis exceeded.
- IN Non-mutine analyte. Quantitation estimated,
- Spike Recovery outside accepted recovery (impts
- Results reported are not blank corrected
- E Value above quantitation range
- Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Client Sample ID: 130043C-SS-01

Lab Order:

C1102015

Tag Number: 96,782 Collection Date: 2/1/2011

Project: Lab ID;

NCIA New Castle

C1102015-004A

Matrix: AIR

| Analyses                  | Result | **Limit | Qual | Units    | DF  | Date Analyzed        |
|---------------------------|--------|---------|------|----------|-----|----------------------|
| 1UG/M3 BY METHOD TO15     |        |         | )-15 |          |     | Analyet: RJP         |
| 1,1,1-Trichloroethane     | 3300 🔾 | 610     |      | ug/m3    | 729 | 2/11/2011 9:02:00 PM |
| 1,1,2,2-Tetrachloroethane | < 1.0  | 1,0     |      | սը/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,1,2-Trichlorosinane     | < 0.83 | 0.83    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,1-Dichleroethane        | 38     | 6.2     |      | ug/m3    | 10  | 2/9/2011 9:19:00 PM  |
| 1,1-Dichloroethene        | 22     | 0.60    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1.2,4-Trichlorobenzene    | < 1,1  | 1.1     |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,2,4-Trimethylbenzene    | 13     | 0.75    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,2-Dibromoelhane         | < 1,2  | 1.2     |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,2-Dichlorobenzene       | < 0.92 | 0.92    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,2-Dichloroethane        | < 0.62 | 0.62    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,2-Dichloropropane       | < 0.70 | 0.70    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,3,5-Trimethylbenzene    | < 0.75 | 0.75    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,3-butadiene             | < 0.34 | 0 34    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| 1,3-Dichlorobenzene       | < 0.92 | 0.92    |      | սդ/m3    | 1   | 2/9/2011 12:09:00 AM |
| 1,4-Dichtorobenzene       | < 0.92 | 0.92    |      | ഗ്മ/ന3   | 1   | 2/9/2011 12:39:00 AM |
| 1,4-Dioxane               | 34 (   | J 11    |      | ug/m3    | 10  | 2/9/2011 9:19:00 PM  |
| 2,2,4-Idmethylpentane     | < 0.71 | 0.71    |      | ഗ്മു/ന3  | 1   | 2/9/2011 12:39:00 AM |
| 4-ethyltoluene            | < 0.75 | 0.75    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Acetone                   | 29     | 7.2     |      | ug/m3    | 10  | 2/9/2011 9:19:00 PM  |
| Allyl chloride            | < 0.48 | 0.48    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Benzene                   | 0.62   | 0.49    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Benzyl chloride           | < 0.88 | 0.88    |      | യ്യാന്ന3 | 1   | 2/9/2011 12:39:00 AM |
| Bromodichtoromethane      | < 1.0  | 1.0     |      | ug/m3    | 1   | 2/9/2011 12 39:00 AM |
| Bromoform                 | < 1.6  | 1.6     |      | യ്യു/ന3  | 1   | 2/9/2011 12:39:00 AM |
| Bromomelhane              | < 0.59 | 0.59    |      | ഗൂ/ന്ഥ്  | 1   | 2/9/2011 12:39:00 AM |
| Carbon distrifide         | 2.2    | 0.47    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Carbon tetrachloride      | < 0.96 | 0.96    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Chlorobenzene             | < 0.70 | 0.70    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Chloroethane              | < 0.40 | 0.40    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Chloroform                | 2.2    | 0.74    |      | ug/m3    | 1   | 2/9/2011 12:39 00 AM |
| Chloromethane             | < 0.31 | 0.31    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| cls-1,2-Dichloroethene    | < 0.60 | 0.60    |      | ug/m3    | 1   | 2/9/2011 12:39 00 AM |
| ds-1,3-Dichloropropene    | < 0.69 | 0.69    |      | ազգ/m3   | 1   | 2/9/2011 12:39:00 AM |
| Cyclohexane               | 0.49   | 0.52    | J    | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Dibromochloromothane      | < 13   | 1.3     |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Ethyl acetate             | < 0.92 | 0.92    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Ethythenzene              | 0.53   | 0.66    | J    | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Freon 11                  | 3.7    | 0.68    |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |
| Freon 113                 | 1.0    | 1,2     | J    | ug/mi3   | 1   | 2/9/2011 12:30:00 AM |
| Freon 114                 | < 1.1  | 1,1     |      | ug/m3    | 1   | 2/9/2011 12:39:00 AM |

#### Qualifiers:

- [] Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Non-routine analyte, Quantitation estimated.
- Spike Recovery datside accepted recovery limits
- Results reported are not blank corrected.
- н Value above quantitation range
- Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Lab Order:

C1102015

Project:

NCIA New Castle

Lab ID;

C1102015-004A

Client Sample ID: 130043C-SS-01

Tag Number: 96,782 Collection Date: 2/1/2011

Matrix: AlR

| Analyses                  | Result   | **Limit Qual   | Units         | DF  | Date Analyzed        |
|---------------------------|----------|----------------|---------------|-----|----------------------|
| 1UG/M3 BY METHOD TO15     |          | TO-15          |               |     | Analyst. RJP         |
| Freon 12                  | 3.7      | 0.75           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Heptane                   | 1.0      | 0.62           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Hexachloro-1,3-butadiene  | < 1.6    | 1.6            | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Hexane                    | < 0.54   | 0.54           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Isopropyl alcohol         | 44       | 3.7            | ug/m3         | 10  | 2/9/2011 9.19.00 PM  |
| m&p-Xylene                | 1.4      | 1.3            | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Methyl Bulyl Kelone       | < 1.2 J  | 1.2            | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Methyl Ethyl Kerone       | 2.8      | 0.90           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Methyl Isobulyl Kelone    | < 1.2 🗇  | 1.2            | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Methyl tert-butyl ether   | < 0.55 J | 0 55           | ug/m3         | 1   | 2/9/2011 12:39 00 AM |
| Methylene chloride        | 5.3      | 0.53           | ug/m3         | 1   | 2/8/2011 12:39:00 AM |
| o-Xylene                  | 0.44     | 0. <b>66</b> J | ug/m3         | 1   | 2/8/2011 12:39:00 AM |
| Propylene                 | < 0.26   | 0.26           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Styrene                   | 0.48     | 0.65 J         | <b>ug/m3</b>  | 1   | 2/9/2011 12:39:00 AM |
| Tetrachtoroethylene       | 9800 🍜   | 760            | ug/m3         | 729 | 2/11/2011 9:02:00 PM |
| Tetrahydrohean            | < 0.45 🗇 | 0.45           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Toluene                   | 4.5      | 0.57           | <b>ug/m</b> 3 | 1   | 2/9/2011 12:39:00 AM |
| trans-1,2-Dichtoroethene  | < 0 60   | 0.60           | യ്യ/ന3        | 1   | 2/9/2011 12:39:00 AM |
| trans-1,3-Dichtoropropene | < 0.69   | 0.69           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Trtchloroethene           | 17       | 8.2            | ug/m3         | 10  | 2/9/2011 9:19:00 PM  |
| Vinyl acetate             | < 0 54   | 0.54           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Vinyl Bromide             | < 0.67   | 0.67           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |
| Vinyl chloride            | < 0.39   | 0.39           | ug/m3         | 1   | 2/9/2011 12:39:00 AM |

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or suglysis exceeded.
- JN New routing analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT: MACTEC Engineering and Consulting, Jpc.

Lab Order:

C1102015

Project: NCIA New Castle

Lab ID:

C1102015-005A

Client Sample ID: 130043C-SS-01 DUP

Tag Number: 431,782 Collection Date: 2/1/2011

Matrix: AIR

| Analyses                  | Result | **Limit    | Qual | Units          | DF  | Date Analyzed        |
|---------------------------|--------|------------|------|----------------|-----|----------------------|
| UG/M3 BY METHOD TO15      |        | тс         | )-15 |                |     | Analyst: RJI         |
| 1,1,1-Trichloroethane     | 2300   | 610        |      | ug/m3          | 729 | 2/11/2011 9:33:00 PM |
| 1,1,2,2-Tetrachtoroethane | < 1.0  | 1,0        |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,1,2-Trichtoroethane     | < 0.83 | 0.83       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,1-Dichloroomano         | 41     | 6.2        |      | ug/m3          | 10  | 249/2011 9:52:00 PM  |
| 1,1-Dichloroethene        | 2.4    | 0.60       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,2.4-Trichlorobenzene    | < 1.1  | 1.1        |      | ug/m3          | 1   | 2/9/2011 1.12:00 AM  |
| 1,2.4-Trimethylbenzene    | 1.0    | 0.75       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,2-Dibromoethene         | < 1.2  | 1.2        |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,2-Dichlorobenzene       | < 0.92 | 0.92       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,2-Dichloroethene        | < 0.62 | 0.62       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,2-Dichloropropane       | < 0.70 | 0.70       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,3,5-Trimelhylbenzene    | < 0.75 | 0.75       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,3-butadiene             | < 0.34 | 0.34       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 1,3-Dichtorobenzene       | < 0.92 | 0.92       |      | <b>სე/m</b> 3  | 1   | 2/9/2011 1:12:00 AM  |
| 1,4-Dichterobenzene       | < 0.92 | 0 92       |      | υ <b>უ/m3</b>  | 1   | 2/9/2011 1:12:00 AM  |
| 1,4-Dioxane               | 37 🔔   | <b>آ</b> ا |      | vg/m3          | 10  | 2/9/2011 9:52:00 PM  |
| 2,2,4-tnmethylpentane     | < 0.71 | 0.71       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| 4-ethytoluene             | < 0.75 | 0.75       |      | og/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Acetone                   | 23     | 7.2        |      | <b>սց/ո</b> ւ3 | 10  | 2/9/2011 9:52:00 PM  |
| Allyl oboride             | < 0.48 | 0.48       |      | ug/m:3         | 1   | 2/9/2011 1:12:00 AM  |
| Benzene                   | 0.45   | 0.49       | J    | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Benzyl chloride           | < 0.88 | 0.88       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Bromodichloromethane      | < 1.0  | 10         |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Bromoform                 | < 1.6  | 16         |      | <b>ս</b> ց/m3  | 1   | 2/9/2011 1.12;00 AM  |
| Bromomothane              | < 0.59 | 0.59       |      | աց/m3          | 1   | 2/9/2011 1 12:00 AM  |
| Carbon disulfide          | 2.2    | 0.47       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Carbon tetrachtoride      | < 0.96 | 0.96       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Chlorobenzene             | < 0.70 | 0.70       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Chloroethane              | < 0.40 | 0.40       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Chloroform                | 2.0    | 0.74       |      | og/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Chloromethane             | < 0.31 | 0.31       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| cis-1,2-Dichloroethene    | < 0.60 | 0.60       |      | ug/m3          | 1   | 2/9/2011 1:12.00 AM  |
| cis-1,3-Dichlorepropene   | < 0.69 | 0.69       |      | ug/m3          | 1   | 2/9/2011 1;12 00 AM  |
| Cyclehoxane               | 0.49   | 0.52       | J    | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Dibromochioromethane      | < 1.3  | 1.3        |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Elhyi acelate             | < 0.92 | 0.92       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Ethylbenzene              | < 0.66 | 0.66       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Freon 11                  | 3.7    | 0.86       |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |
| Freon 113                 | 1.0    | 1,2        | J    | ug/m3          | 1   | 2/2/2011 1:12:00 AM  |
| Freon 114                 | < 1.1  | 1.1        |      | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |

Qualifiers:

- Reporting Limit
- В Analyte detected in the associated Method Blank
- П Holding times for preparation or analysis excended
- 17/ Non-routine analyte. Quantitation estimated.
- Spike Recovery autside accepted recovery limits

Results reported are not blank corrected

- Е Value above quantitation range
- Audyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Client Sample ID: 130043C-SS-01 DUP

Lab Order:

C1102015

Tag Number: 431,782

Project:

NCIA New Castle

Collection Date: 2/1/2011

Lab ID:

C1102015-005A

Matrix: AIR

| Analyses                  | Result   | **Limit Qual | Units          | DF  | Date Arralyzed       |  |
|---------------------------|----------|--------------|----------------|-----|----------------------|--|
| TUG/M3 BY METHOD TO15     |          | TO-15        |                |     | Analyst, RJF         |  |
| Freon 12                  | 3.7      | 0.75         | <b>ug</b> /m3  | 1   | 2/9/2011 1:12:00 AM  |  |
| Heplane                   | 1.0      | 0.62         | <b>∪g</b> /m3  | 1   | 2/9/2011 1:12:00 AM  |  |
| Hexachloro-1,3-butadiene  | < 1.6    | 1.6          | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Нехапе                    | < 0.54   | 0.54         | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Isopropyi alcohol         | 52       | 3.7          | ug/m3          | 10  | 2/9/2011 9:52:00 PM  |  |
| m&p-Xytena                | 1.3      | 1.3          | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Melnyl Butyl Kelone       | < 1.2.5  | 1.2          | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Melhyl Ethyl Kelone       | 2.8      | 0.90         | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Methyl isobutyl Kelone    | < 1.2 JT | 1.2          | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Methyl tert-butyl ether   | <0.55 万  | 0.55         | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Methylene chloride        | 1.2      | 0.53         | սց/m3          | 1   | 2/9/2011 1.12 00 AM  |  |
| o-Xytene                  | < 0.06   | 0.68         | ug/m3          | 1   | 2/9/2011 1 12:00 AM  |  |
| Propytene                 | < 0.26   | 0.26         | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Styrene                   | 0.52     | 0.65 J       | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Tetrachloroethylene       | 7500 J   | 760          | ug/m3          | 729 | 2/11/2011 9:33:00 PM |  |
| Tetrahydrofuran           | < 0.45 J | 0.45         | ug/m3          | 1   | 2/8/2011 1:12:00 AM  |  |
| Totuene                   | 3.9      | 0.57         | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| trans-1,2-Dichloroethene  | < 0.60   | 0.60         | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| trans-1,3-Dichloropropene | < 0.69   | 0.69         | ug/m3          | 1   | 2/9/2011 1:12:00 AM  |  |
| Trichtcroethene           | · 20     | 8.2          | ug/m3          | 10  | 2/9/2011 9:52:00 PM  |  |
| Vinyl acetate             | < 0.54   | 0.54         | <b>სე</b> /m3  | 1   | 2/9/2011 1:12:00 AM  |  |
| Vinyl Broinide            | < 0.67   | 0.67         | υ <b>ე/</b> m3 | 1   | 2/9/2011 1:12:00 AM  |  |
| Vinyl caloride            | < 0.39   | 0.39         | vg/m3          | 1   | 2/9/2011 1:12:00 AM  |  |

Qualifiers:

- Reporting Limit
- Analyte detected in the associated Method Blank
- п Holding times for preparation of analysis exceeded.
- įΝ Non-routine analyte. Quantitation estimated.
- Spike Recovery outside accepted recovery lunus

Results reported are not blank corrected.

- Value above quantitation range
- Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Client Sample ID: 130043C-IA-01

Lab Order:

C1102015

Tag Number: 413,392

Project:

NCIA New Castle

Callection Date: 2/1/2011

Lab ID;

C1102015-006A

Matrix: AlR

| Analyses                      | Result  | **Limit | Qual Uni      | ts DF        | Date Analyzed        |
|-------------------------------|---------|---------|---------------|--------------|----------------------|
| IUG/M3 W/ 0.25UG/M3 CT-TCE-VC |         | то      | -15           |              | Analyst RJ/          |
| 1,1,1-Triphtoroethane         | 0.67    | 0.83    | J ug/n        | n3 1         | 2/8/2011 10:59:00 PM |
| 1,1,2,2-Tetrachloroethane     | < 1.0   | 1.0     | ug/n          | n3 1         | 2/8/2011 10 59:00 PM |
| 1,1,2-Trichloroetinane        | < 0.83  | 0.83    | ug/n          | n3 1         | 2/8/2011 10:59:00 PM |
| 1,1-Dichloroethane            | < 0.62  | 0.62    | ug/n          | n3 1         | 2/8/2011 10:59:00 PM |
| 1,1-Dichloroethene            | < 0.60  | 0.60    | eg/n          | n3 1         | 2/8/2011 10:59:00 PM |
| 1,2,4-Trichiorobenzens        | < 1.1   | 1.1     | ug/n          | n3 1         | 2/8/2011 10:59:00 PM |
| 1,2,4-Trimelhylbenzene        | 1.7     | 0.75    | ug/n          | n3 , 1       | 2/8/2011 10:59:00 PM |
| 1,2-Dibromoethane             | < 7.2   | 1,2     | <b>03/</b> 6  | n3 <b>1</b>  | 2/8/2011 10:59:00 PM |
| 1,2-Dictiorobenzene           | < 0.92  | 0.92    | ug/n          | п3 1         | 2/8/2011 10:59.00 PM |
| 1,2-Dichtoroetinane           | < 0.62  | 0,62    | -ug/n         | n3 <b>1</b>  | 2/8/2011 10:59:00 PM |
| 1,2-Dichloropropane           | < 0.70  | 0.70    | ug/a          | п3 1         | 2/8/2011 10:59:00 PM |
| 1,3,5-Trimethylbenzene        | < 0.75  | 0.75    | ug/o          | п3 1         | 2/8/2011 10:59:00 PM |
| 1,3-butadiene                 | < 0.34  | 0.34    | ugh           | n3 1         | 2/8/2011 10:59:00 PM |
| 1,3-Dichlorobanzene           | < 0.92  | 0.92    | ug/n          | <b>n</b> 3 1 | 2/8/2011 10:59:00 PM |
| 1,4-Dichlorobenzene           | < 0.92  | 0.92    | ug/n          | n.3 1        | 2/8/2011 10:59:00 PM |
| 1,4-Dioxane                   | < 1.1 🔰 | 1.1     | ug/r          | ი3 1         | 2/8/2011 10:59:00 PM |
| 2,2,4-trimelnytpentane        | < 0.71  | 0.71    | ug/n          | n3 1         | 2/8/2011 10:59:00 PM |
| 4-ethylioluene                | < 0.75  | 0.75    | ug/r          | n3 1         | 2/8/2011 10:59:00 PM |
| Acetone                       | 22      | 3.6     | ug/n          | n3 5         | 2/9/2011 7:13:00 PM  |
| Allyl chloride                | < 0.48  | 0.48    | ug/n          | n/3 1        | 2/8/2011 10:59:00 PM |
| Benzene                       | 1.2     | 0.49    | ug/n          | n3 1         | 2/8/2011 10.59:00 PM |
| Benzyl chloride               | < 0.88  | 6.88    | ug/r          | n3 1         | 2/8/2011 10 59:00 PM |
| Bromodichloromethane          | < 1.0   | 1.0     | ug/r          | n3 1         | 2/8/2011 10:59:00 PM |
| Вголюбогт                     | < 1.6   | 1.6     | ug/n          | n3 1         | 2/8/2011 10:59:00 PM |
| Bromomethane                  | < 0.59  | 0.59    | ug/r          | n3 1         | 2/8/2011 10:59:00 PM |
| Carbon disulfide              | < 0.47  | 0.47    | vg/r          |              | 2/8/2011 10:59:00 PM |
| Carbon tetrachloride          | 0.64    | 0.26    | 09/0          | n3 <b>1</b>  | 2/8/2011 10:59.00 PM |
| Chtorobenzene                 | < 0.70  | 0.70    | ug/r          |              | 2/8/2011 10:50:00 PM |
| Chtoroethane                  | < 0.40  | 0.40    | υ <u>π</u> /τ | п3 1         | 2/8/2011 10:59:00 PM |
| Chloroform                    | < 0.74  | 0.74    | տան           |              | 2/8/2011 10:59:00 PM |
| Chloromethane                 | < 0.31  | 0.31    | ug/r          | п3 1         | 2/8/2011 10:59:00 PM |
| cis-1,2-Dichloroethene        | < 0.60  | 0.60    | ug/r          | រា3 1        | 2/8/2011 10:59:00 PM |
| cis-1,3-Dichioropropene       | < 0.69  | 0.69    | ug/r          |              | 2/8/2011 10:59:00 PM |
| Cyclohexane                   | 0.56    | 0.52    | ug/r          |              | 2/8/2011 10:59:00 PM |
| Dibromochteromethane          | < 1.3   | 1.3     | ug//          |              | 2/8/2011 10:59:00 PM |
| Elhyl acetate                 | < 0.92  | 0 92    | ug/r          |              | 2/8/2011 10:59:00 PM |
| Elnyibenzene                  | 0.71    | 0.68    | ug/r          |              | 2/8/2011 10:59:00 PM |
| Freon 11                      | < 0.88  | 0 88    | nitht.        |              | 2/8/2011 10:59:00 PM |
| Freon 113                     | < 1.2   | 1.2     | matt.         |              | 2/8/2011 10 59:00 PM |
| Freon 114                     | < 1.1   | 1.1     | ug/r          |              | 2/8/2011 10:59:00 PM |

#### Qualifiers:

- * Reporting Limit
- B. Analyte detected in the associated Method Blank.
- H Holding times for preparation or analysis exceeded
- JK Non-reintine analyte. Quantitation estimated.
- 8 Spike Receivery outside accepted receivery limits
- Results reported are not blank corrected
- E Value above quantitation range
- J. Analyte detacted at or below quantitation lange.
- ND Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT: MACTEC Engineering and Consulting, Inc.

Client Sample ID; 130043C-IA-01

Lab Order:

C1102015

Tag Number: 413,392

Project: Lab ID; NCIA New Castle C1102015-006A Collection Date: 2/1/2011 Matrix: AIR

**Limit Qual Units Analyses Result DF Date Analyzed 1UG/M3 W/ 0.25UG/M3 CT-TCE-VC TO-15 Analyst: RJP Freon 12 < 0.75 1 2/8/2011 10:59:00 PM 0.75 ug/m3 0.921 Reptane 0.62 աց/լո3 2/8/2011 10:59:00 PM < 1.6 Hexachtero-1,3-butadiene 1.6 ացմու3 1 2/8/2011 10:59:00 PM 3.5 1 սուլու 3 2/8/2011 10:59:00 PM **Hexane** 0.54Isopropyl alcohol 2,7 0.37 արտո3 1 2/8/2011 10:59:00 PM 1.4 1 2/8/2011 10:59:00 PM m&p-Xyiene 1.3 ug/m3 < 1.2 J Methyl Bulyl Ketone 1.2 ug/m3 2/8/2011 10:59:00 PM Methyl Ethyl Kelone 17 4.5 ug/m3 2/9/2011 7:13:00 PM <1.2 J Methyl Isobirtyl Kelone 1.2 ug/m3 1 2/8/2011 10:59:00 PM < 0.55 1 Methyl ten-bulyl ether 0.55og/m3 2/8/2011 10:59:00 PM Methylene chloride 1.3 0.53 ug/m3 2/8/2011 10:59:00 PM 0.66o-Xyiene 0.66 սլս/լու3 2/8/2011 10:59:00 PM < 0.26 Propytene 0.26 ug/m3 1 2/8/2011 10:59:00 PM 0.431 Styrene 0.65սց/m3 2/8/2011 10:59:00 PM Tetrachiorosthylene 1.7 1.0 սո/m3 2/8/2011 10:59:00 PM 2/8/2011 10:59:00 PM Tetrahydrofuran 3.1 0.45 ug/m3 Toluene 3.4 0.57ug/m3 2/8/2011 10:59:00 PM < 0.60 trans-1,2-Dichloroethene 0.60 ഗൂ/ന3 2/8/2011 10:59:00 PM < 0.89 trans-1,3-Dichleropropene 0.69ug/m3 2/8/2011 10:50:00 PM Trichtoroethene 0.660.22იე/ი:3 2/8/2011 10:59:00 PM Vinyl acetate < 0.54 0.54ცე/m3 2/8/2011 10:59:00 PM Vinyl Bromide < 0.67 0.67 υ**д/m**3 2/8/2011 10:59:00 PM

0.10

ഗ്ത/ന്ന3

< 0.10

#### Qualifiers;

Vinyl chloride

- Reporting Limit
- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded.
- JK Non-routing analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery Finals
- Results reported are not blank corrected
- B Value above quantitation range
- J. Analyte detected at or below quantitation limits.
- ND Not Detected at the Reporting Limit

Page 12 of 16

2/8/2011 10:59:00 PM

Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Lab Order:

C1102015

Project:

NCIA New Castle

Lab ID:

C1102015-007A

Client Sample ID: 130043C-SS-02

Tag Number: 430,404 Collection Date: 2/1/2011

Matrix: AIR

| Analyses                  | Result | **Limit | Qual | Units           | DF | Date Analyzed        |
|---------------------------|--------|---------|------|-----------------|----|----------------------|
| UG/M3 BY METHOD TO15      |        | TO      | )-15 |                 |    | Analyst RJA          |
| 1,1,1-Trichtoroethane     | 440    | 78      |      | ug/m3           | 90 | 2/10/2011 9:35:00 AM |
| 1,1,2,2-Tetrachloroethane | < 1.0  | 1.0     |      | <b>սց</b> /m3   | 1  | 2/9/2011 1:46:00 AM  |
| 1,1,2-Trichtoroethane     | < 0.83 | 0.83    |      | ug/m3           | 1  | 2/9/2011 1:48:00 AM  |
| 1,1-Dichloroethane        | 18     | 6.2     |      | ug/m3           | 10 | 2/9/2011 10:24:00 PM |
| 1,1-Dichloroethene        | 0.60   | 0.60    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| 1,2,4-Trichtorobenzene    | < 1.1  | 1.1     |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| 1,2,4-Trimelhylbenzene    | 1.4    | 0.75    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| 1,2-Dibromoethane         | s 1.2  | 1.2     |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| 1,2-Dichtorobenzene       | < 0.92 | 0.92    |      | ug/m3           | 1  | 2/9/2011 1:46.00 AM  |
| 1,2-Dichloroethane        | 1.5    | 0.62    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| 1,2-Dichtoropropane       | < 0.70 | 0.70    |      | ug/m3           | 1  | 2/9/2011 1.46:00 AM  |
| 1,3,5-Trimothy/benzene    | < 0.75 | 0.75    |      | ug/m3           | 1  | 2/9/2011 1,46:00 AM  |
| 1,3-butadene              | < 0.34 | 0.34    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| 1,3-Dichtorobenzene       | < 0.92 | 0.92    |      | ug/m3           | 1  | 2/9/2011 1:45:00 AM  |
| 1,4-Dichtorobenzene       | 0.8G   | 0.92    | J    | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| 1,4-Dloxane               | <11ブ   | 1.1     |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| 2,2,4-ir/methylpentane    | < 0.71 | 0.71    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| 4-ethytholuene            | < 0.75 | 0.75    |      | tig/m3          | 1  | 2/9/2011 1:46:00 AM  |
| Acetone                   | 42     | 7.2     |      | ug/m3           | 10 | 2/9/2011 10:24:00 PM |
| Allyl chloride            | < 0.48 | 0.48    |      | ഗ്രു/ന3         | 1  | 2/9/2011 1:46:00 AM  |
| Denzene :                 | 1.1    | 0 49    |      | บ <b>ญ/m</b> 3  | 1  | 2/9/2011 1:46:00 AM  |
| Benzyl chloride           | < 0.88 | 0.68    |      | ug/m3           | 1  | 2/9/2011 1:48:00 AM  |
| Broniedichloromethane     | < 10   | 1.0     |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Bromeform                 | < 16   | 1.6     |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Bromomelhane              | < 0.59 | 0.59    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Carbon disulfide          | 2.1    | 0.47    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Carbon tetrachloride      | < 0.96 | 0.98    |      | <b>Ա</b> ՀԵՐՈՒՅ | 1  | 2/9/2011 1:46.00 AM  |
| Chlorobenzene             | < 0.70 | 0.70    |      | ug/m3           | 1  | 2/9/2011 1:46.00 AM  |
| Chloroethane              | < 0.40 | 0.40    |      | ug/m3           | 1  | 2/9/2011 1:46 00 AM  |
| Chloroform                | 1.1    | 0.74    |      | ug/m3           | 1  | 2/9/2011 1 46 00 AM  |
| Chloromethane             | < 0.31 | 0.31    |      | ug/m3           | 1  | 2/9/2011 1 40:00 AM  |
| cis-1,2-Dichteroathene    | < 0.60 | 0.60    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| cis-1,3-Dichtoropropane   | < 0.69 | 0.69    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Cyclohexane               | 0.94   | 0.52    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Digromochloromethane      | < 1.3  | 1.3     |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Ethyl acetate             | < 0.92 | 0.92    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Ethylbenzene              | 1.4    | 0.66    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Freon 11                  | 2.9    | 0.86    |      | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| Freon 113                 | 0.86   | 1.2     | J    | ug/m3           | 1  | 2/9/2011 1:46:00 AM  |
| From 114                  | < 1.1  | 1.1     | -    | ug/m3           | 1  | 2/0/2011 1:46:00 AM  |

Qualifiers:

- ** Reporting Limit
- B. Analyte detected in the associated Method Higali-
- H Holding times for preparation or analysis exceeded.
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Lund

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Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Lab Order:

C1102015

Project:

NCIA New Castle

Lab ID:

C1102015-007A

Client Sample ID: 130043C-SS-02

Tag Number: 430,404 Collection Date: 2/1/2011

Matrix: AIR

| Analyses                  | Result   | **Limit( | [eup | Units  | DF | Date Analyzed        |
|---------------------------|----------|----------|------|--------|----|----------------------|
| TUG/M3 BY METHOD TO15     |          | το-      | 15   |        |    | Analyst: RJP         |
| Freon 12                  | 2.9      | 0.75     |      | ug/m3  | 1  | 2/0/2011 1:46:00 AM  |
| Heplane                   | 2.9      | 0.62     |      | ug/m3  | 1  | 2/9/2011 1:45:00 AM  |
| Hexachtoro-1,3-butadiene  | < 1.6    | 1.6      |      | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |
| Hexane                    | 3.8      | 0,54     |      | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |
| Isopropyl alcohol         | 130      | 15       |      | ug/m3  | 40 | 2/9/2011 10:57:00 PM |
| m&p-Xylene                | 3.4      | 1.3      |      | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |
| Methyl Butyl Ketone       | 0 45.15  | 1.2      | J    | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |
| Methyl Ethyl Ketone       | 11       | 9.0      |      | ug/m3  | 10 | 2/9/2011 10:24:00 PM |
| Methyl Isobutyl Ketone    | < 1,2 J  | 1.2      |      | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |
| Methyl tert-bulyl ether   | < 0.55 🗇 | 0.55     |      | ug/m3  | 1  | 2/9/2011 1:48:00 AM  |
| Methylene chloride        | 1.8      | 0.53     |      | ug/m3  | 1  | 2/9/2011 1 45:00 AM  |
| o-Xylene                  | 1.1      | 0.66     |      | ug/m3  | 1  | 2/9/2011 1 46 00 AM  |
| Propylene                 | < 0.26   | 0.26     |      | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |
| Styrene                   | 1.1      | 0.65     |      | ഗൂ/m3  | 1  | 2/8/2011 1:46:00 AM  |
| Tetrachloroethytene       | 860      | 97       |      | ug/m3  | 90 | 2/10/2011 9:35:00 AM |
| Tetrahydrofuran           | 2.4 _ 7  | 0.45     |      | യ്യ/ന3 | 1  | 2/9/2011 1:46:00 AM  |
| Toluene                   | 9.2      | 5.7      |      | ug/m3  | 10 | 2/9/2011 10:24:00 PM |
| trans-1,2-Dichloroethene  | < 0.60   | 0.60     |      | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |
| trans-1.3-Dichloropropene | < 0.69   | 0.69     |      | ugr/m3 | 1  | 2/9/2011 1:46:00 AM  |
| Trichtoroethene           | 3.3      | 0.82     |      | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |
| Vinyl acetale             | < 0.54   | 0.54     |      | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |
| Vinyl Bromide             | < 0.67   | 0.67     |      | ug/m3  | 1  | 2/8/2011 1:46:00 AM  |
| Vinyl chloride            | < 0.39   | 0.39     |      | ug/m3  | 1  | 2/9/2011 1:46:00 AM  |

#### Qualifiers:

- Reporting Limit
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- IИ Non-routine analyte. Quantitation estimated.
- Spike Recevery outside accepted recovery limits

Results reported are not blank corrected

- Vulue above quantitation range
- Analyte detected at or below quantitation limits.
- NO Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Client Sample ID: 130043C-tA-02

Lab Order:

C1102015

Project:

Tag Number: 543,121 Collection Date: 2/1/2011

NCIA New Castle

Matrix: AlK

Lab ID: C1102015-008A

| Analyses                      | Result         | **Limit | Qual | Units           | DF | Date Analyzed        |
|-------------------------------|----------------|---------|------|-----------------|----|----------------------|
| 1UG/M3 W/ 0.26UG/M3 CT-TCE-VC |                | то      | -15  |                 |    | Analyst, RJP         |
| 1,1,1-Trichforcethane         | 0.55           | 0.83    | J    | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,1,2,2-Tetrachloroethane     | < 1.0          | 1.0     |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,1,2-Trichloroethane         | < 0.83         | 0.83    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,1-Dichloroethane            | < 0.62         | 0.62    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,1-Dichloroethene            | < 0.60         | 0.60    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,2,4-Trichtorobenzene        | < 1.1          | 1,1     |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,2,4-Trimethylbenzene        | 1.3            | 0.75    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,2-Drbromoethane             | < 1.2          | 1.2     |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,2-Drchlorobenzene           | < 0.92         | 0.92    |      | ug/m3           | 1  | 2/8/2011 11,32:00 PM |
| 1,2-Drchloroethane            | < 0.62         | 0.62    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,2-Dichloropropane           | < 0.70         | 0.70    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,3,5-Trimelhylbenzene        | < 0.75         | 0.75    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,3-buladiene                 | < 0.34         | 0.34    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,3-Dichlorobenzene           | < 0.92         | 0.92    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,4-Dichlorobenzene           | < 0.92         | 0.92    |      | og/m3           | 1  | 2/8/2011 11:32:00 PM |
| 1,4-Dioxane                   | <i>ت</i> 1.1 > | 1,1     |      | <b>სე/m</b> 3   | 1  | 2/8/2011 11:32:00 PM |
| 2,2,4-trimethylpentane        | < 0.71         | 0.71    |      | ഗ്മ/ന3          | 1  | 2/8/2011 11:32:00 PM |
| 4-cinyttoluene                | < 0.75         | 0.75    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Acatone                       | 51             | 7.2     |      | ug/m3           | 10 | 2/9/2011 7:45:00 PM  |
| Altyl aftende                 | < 0.48         | 0.48    |      | ഗൂ/ന3           | 1  | 2/8/2011 11:32:00 PM |
| Benzene                       | 11             | 0.49    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Benzyl chloride               | < 0.88         | 0.88    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Bromodichloromethane          | < 1.0          | 1.0     |      | (gým3           | 1  | 2/8/2011 11:32:00 PM |
| Bromofoan                     | < 1.6          | 16      |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Bromomelhane                  | < 0.59         | 0 59    |      | <b>ս</b> գտ3    | 1  | 2/8/2011 11:32:00 PM |
| Carbon disulfide              | < 0.47         | 0 47    |      | பருர்கள்        | 1  | 2/8/2011 (1:32:00 PM |
| Carbon tetrachloride          | 0.64           | 0 28    |      | <b>പ്പൂ/m</b> 3 | 1  | 2/8/2011 11:32:00 PM |
| Chlorobenzeno                 | < 0.70         | 0.70    |      | ug/m3           | 1  | 2/8/2011 11,32:00 PM |
| Chloroethane                  | < 0.40         | 0.40    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Chloroform                    | < 0.74         | 0.74    |      | ug/m3           | 1  | 2/6/2011 11:32:00 PM |
| Chloromethane                 | < 0.31         | 0.31    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| cis-1,2-Dichtoroethene        | < 0.60         | 0.60    |      | ug/m3           | 1  | 2/0/2011 11:32:00 PM |
| cis-1,3-Dichloropropene       | < 0.69         | 0.69    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Cyclohexane                   | < 0.52         | 0.52    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Dibromochloromethane          | < 13           | 1.3     |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Elhyl acotate                 | < 0.92         | 0.92    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| E(hythenzene                  | 0.62           | 0.66    | J    | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Freen 11                      | 2.6            | 0.86    |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Freon 113                     | < 1.2          | 1.2     |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |
| Freon 114                     | < 1.1          | 1,1     |      | ug/m3           | 1  | 2/8/2011 11:32:00 PM |

Qualifiers:

- Reporting Limit
- Analyte detected in the associated Method Blank
- Holding times for preparation or auxlysis exceeded E
- Non-routine analyte. Quantitation estimated.
- Spike Receivery outside accepted recovery limits
- Results reported are not blank corrected.
- E. Value above quantitation range
- Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

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Date: 16-Feb-11

CLIENT:

MACTEC Engineering and Consulting, Inc.

Client Sample ID: 130043C-IA-02

Lab Order:

C1102015

Project:

Tag Number: 543,121 Collection Date: 2/1/2011

Lab ID:

NCIA New Castle C1102015-008A

Matrix: AIR

| Analyses                      | Result   | **Limit | Qual | Units              | DF | Date Analyzed                 |
|-------------------------------|----------|---------|------|--------------------|----|-------------------------------|
| 1UG/M3 W/ 0.25UG/M3 CT-TCE-VC |          | то      | -15  |                    |    | Analyst: RJP                  |
| Freon 12                      | 2.8      | 0.75    |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Heplane                       | 0.54     | 0.62    | J    | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Hexachloro-1,3-butadiene      | < 1.6    | 1.6     |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Hexane                        | 7.5      | 5.4     |      | ug/m3              | 10 | 2/9/2011 7:45:00 PM           |
| Isopropyl alcohol             | 4.5      | 0.37    |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| m&p-Xylene                    | 1.4      | 1.3     |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Methyl Bulyl Kotone           | < 1.2 J  | 1.2     |      | ug/m3              | t  | 2/8/2011 11:32:00 PM          |
| Methyl Ethyl Ketone           | 31       | 9.0     |      | ug/m3              | 10 | 2/9/2011 7:45:00 PM           |
| Methyl Isobutyl Ketone        | < 1.2 J  | 1.2     |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Methyl fort-butyl ether       | < 0.55 ٿ | 0.55    |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Methylene chtoride            | 5.5      | 0.53    |      | ug/m3              | 1  | 2/8/2011 11: <b>1</b> 2:00 PM |
| o-Xylene                      | 0.57     | 0.66    | J    | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Propylene                     | < 0.26   | 0.26    |      | υ <b>ე/m</b> 3     | 1  | 2/8/2011 11:32:00 PM          |
| Styrene                       | 0.69     | 0.65    |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Tetrachloroethylene           | 1.9      | 1.0     |      | υ <del>ე</del> /m3 | 1  | 2/8/2011 11:32:00 PM          |
| Tetranydrofuran               | 16       | 4.5     |      | ug/m3              | 10 | 2/9/2011 7:45:00 PM           |
| Toluene                       | 3.7      | 0 57    |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| trans-1,2-Dichteroethene      | < 0.60   | 0.60    |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| trans-1,3-Dichtoropropene     | < 0.69   | 0.69    |      | ug/n:3             | 1  | 2/8/2011 11:32:00 PM          |
| Trichloroethene               | 0.27     | 0.22    |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Vinyl acetate                 | < 0.54   | 0.54    |      | യൂ/മാ3             | 1  | 2/8/2011 11:32:00 PM          |
| Vinyi Bromide                 | < 0.67   | 0.67    |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |
| Vinyi chloride                | < 0.10   | 0.10    |      | ug/m3              | 1  | 2/8/2011 11:32:00 PM          |

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|    |     |    |    |  |

- Reporting Limit
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine sualyte. Quantitation estimated.
- Spike Recovery outside accepted recovery limits

Results reported are not blank corrected.

- 1 Value above quantitation range
- Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

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